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JANUARY 24, 1948



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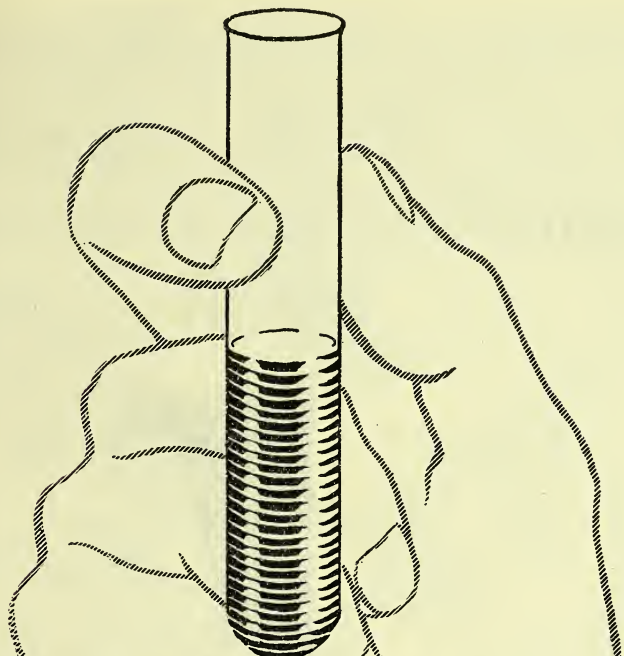
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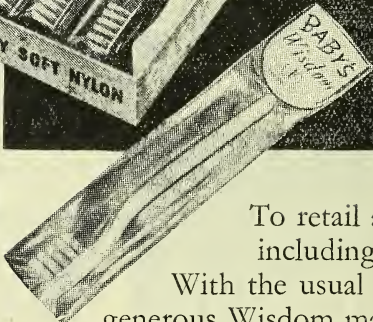
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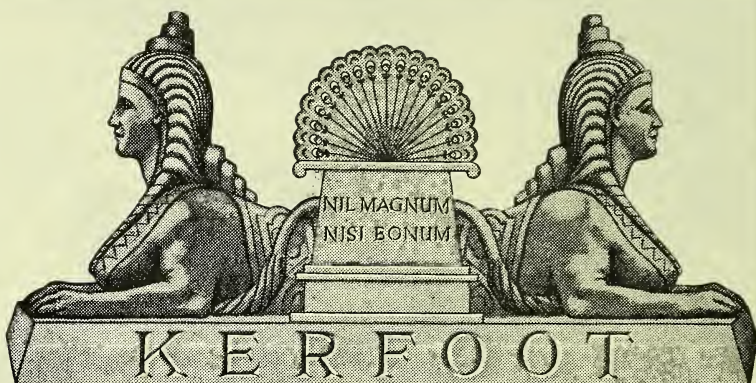


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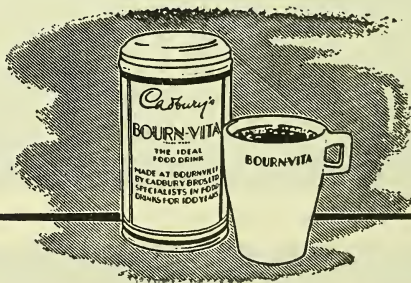


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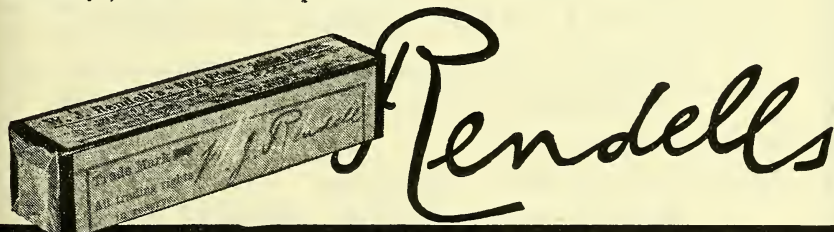


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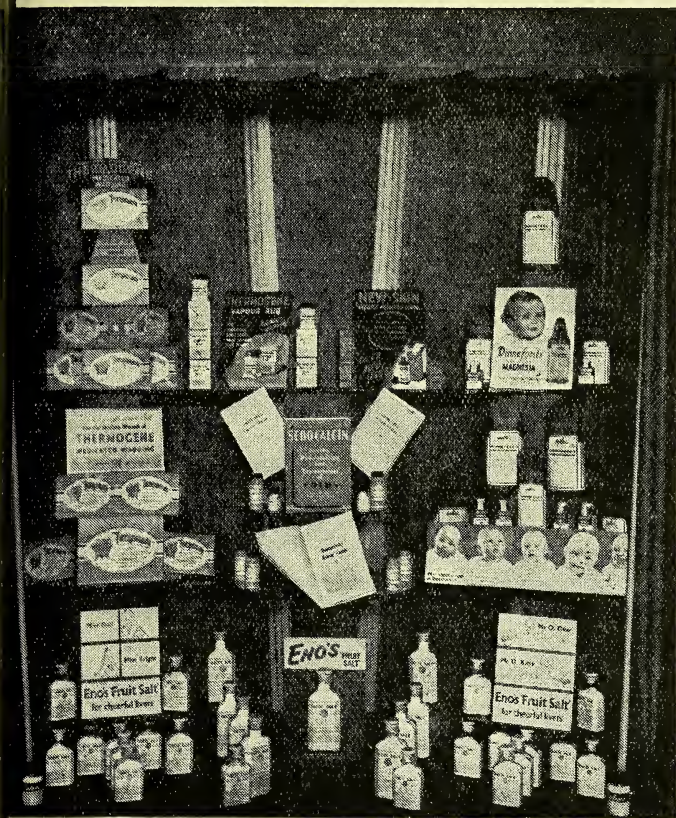
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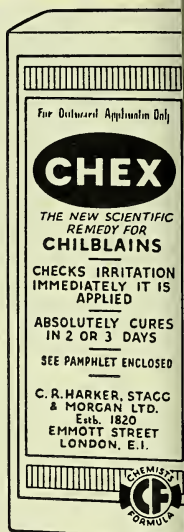
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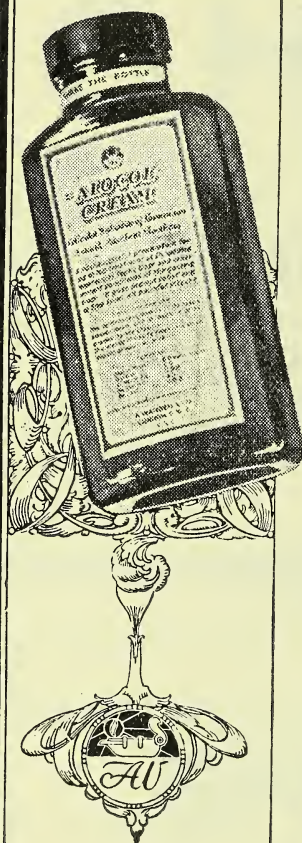


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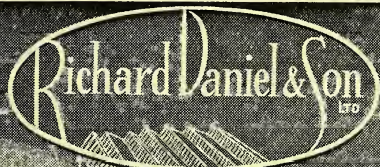
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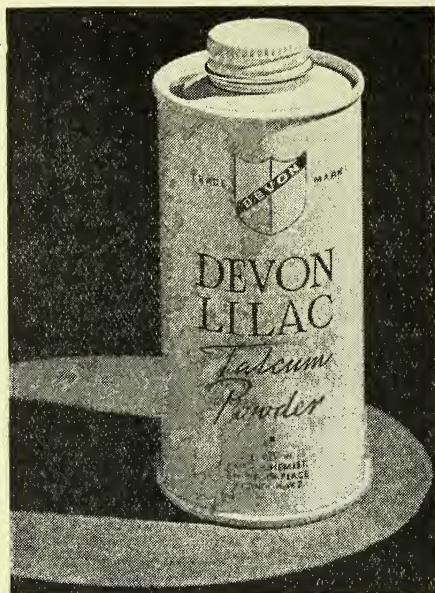
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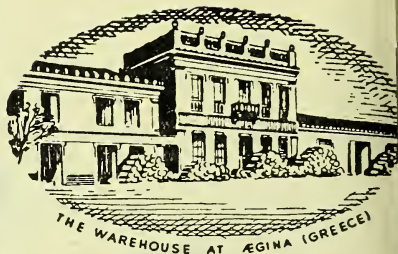


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The CHEMIST AND DRUGGIST



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NEWS OF THE WEEK

B.I.F. Postmark.—From January 20 to January 14, letters and postcards posted in London and many large provincial towns are to be franked with a special British Industries Fair postmark slogan.

Distribution of Insurance Cards.—From January 31, National Health and Pensions Insurance contribution cards are to be issued through local offices of the Ministry of Labour instead of by post.

Insurance Scheme Date.—The Ministry of National Insurance laid before Parliament, on January 20, two orders fixing July 1948, as the "appointed day" on which the National Insurance Act, 1946, and the National Insurance (Industrial Injuries) Act, 1946, are to come into operation.

U.S.S.R. and Exchange Control.—A new Exchange Control Payments Order (No. 17), which came into force on January 15, enables payments from U.S.S.R. transferable accounts to be made in a larger number of instances than hitherto without specific Treasury permission.

Stevenage as Science Centre.—Mr. Herbert Morrison (Lord President of the Council), announced recently that the Government had decided to give preference to the new "satellite" town of Stevenage in considering sites for new scientific establishments in the London region.

Chemists Federation.—A meeting of the Council of the Chemists Federation was held on January 8, the president in the chair. The report of a meeting of the Propaganda Committee was approved, and details were arranged for propaganda work in January and February. One application for wholesaler membership was rejected; Matthews & Wilson, Ltd., 6 Cole Street, London, S.E.1 (Oxydoin ointment and Sudex senna pods) were accepted for manufacturer membership. Of five other applications, one was not accepted and consideration of the remainder was deferred for further discussion with the applicants.

Retail Trade in November 1947.—Board of Trade returns record an increase of 6 per cent. in the sales of independent chemists in November 1947 over those of

the previous month, and an increase of 9 per cent. over the November 1946 figure. Sales of large-scale retailers were 20 per cent. higher in November than a year earlier. Expectation of an increase in the purchase tax on such goods as cosmetics is thought to have been the reason for the heavy buying during the month.

LOCAL NEWS

Bournemouth Dance.—A buffet and dance of the Bournemouth Pharmaceutical Association, on January 7, was attended by some 200 members and friends. Gifts to the value of over £50, presented by wholesalers, were awarded as prizes.

Chemists' Assistant Kidnapped.—Mrs. E. Walton, an assistant at Bruces, Ltd., chemists, Chiswick High Road, London, W.4, was kidnapped and robbed of £45 near Turnham Green on January 20, while taking cash from the shop to the bank.

Eastbourne Social.—Members of the Eastbourne Branch of the Pharmaceutical Society and their friends held a whist drive and social on January 14. A quiz, conducted by Mr. Eric Vinall, included a number of questions of pharmaceutical interest.

Film Show.—The London Branches of the Guild of Public Pharmacists and Association of Scientific Workers held a film show in London on January 16. The programme included "Take Thou" (Evans Medical Supplies, Ltd.). Mr. J. R. Elliott was in the chair.

Women Pharmacists' Dance.—The annual dance of the National Association of Women Pharmacists, held in London on January 14, was attended by nearly 100 members and guests. Miss Dorothy M. Jones (president) expressed regret at the absence through illness of Mrs. J. K. Irvine, M.B.E. (president, Pharmaceutical Society) to whom a message of good wishes was sent.

Manchester Dinner Dance.—At a dinner dance and whist drive held by the Manchester Pharmaceutical Association on January 14, the guests were received by the president (Mr. Harry Steinman) and Mrs. Steinman. Winners in the whist drive were Mrs. C. D. Blackman, Mrs. J. R. Walmsley, Mrs. R. E. Parry and Mr. R. E. Gee.

Petrie Trust Bursary.—The annual competition for the Petrie Trust Bursary is to be held in Aberdeen on February 4. Prospective candidates, who should have completed an indentured apprenticeship of at

least three years with a pharmacist in the city or county of Aberdeen, may obtain further particulars from Mr. John A. Neill, 2 Schoolhill, Aberdeen.

Glasgow Allergy Lecture.—There was a large attendance at a meeting of the Glasgow and South-western Scottish Branch of the Pharmaceutical Society on January 14, Mr. R. McCrone presiding, when the film "Take Thou" was shown. Dr. T. G. A. McSorley was unable to be present and his paper on "Allergy" was read by Dr. Douglas Riding (Evans Medical Supplies, Ltd.). A vote of thanks to the speaker was proposed by Mr. C. Hughan.

Dewsbury Inaugural Dinner.—The inaugural dinner of the Dewsbury Branch of the Pharmaceutical Society was held on January 15, when the guests of honour were Mr. T. Heseltine (a member of the Society Council) and Mrs. Heseltine. The loyal toast, proposed by the president (Mr. F. Moorhouse), was followed by "The Pharmaceutical Society," proposed by Mr. J. W. Phillips, who included the best wishes of the members for the speedy recovery of the president (Mrs. J. K. Irvine). Mr. Heseltine responded, mentioning specially the work of the Benevolent Fund.

Hounslow Film Show.—At the January meeting of the Hounslow Branch of the Pharmaceutical Society, Mr. W. J. Merrick (Evans Medical Supplies, Ltd.) introduced the following films: "Take Thou" and "The Story of Blood Transfusion." A third film, "Transfer of Power" (describing the principle of the gear wheel), was "a pleasant interlude from pharmacy," writes Mr. V. M. Bond (secretary), "but reminiscent of Part I physics." At the meeting members had an opportunity for informal discussion with Mr. F. W. Adams (deputy-secretary, Pharmaceutical Society).

Warrington Forensic Lecture.—A meeting of the Warrington Branch of the Pharmaceutical Society held on January 12 was addressed by Dr. W. H. Grace (lecturer in forensic medicine, University of Liverpool, and Home Office pathologist, North-western region). The speaker, whose address was illustrated by lantern slides, gave details of some of the problems that confront the pathologist called in by the police to decide whether a sudden death is due to accident, suicide or murder. The audience, which numbered more than 100, included local members of the medical profession, the chief constable of Warrington and senior police officers.

Wirral Annual Dinner.—Some seventy members and friends attended the annual dinner of the Birkenhead and Wirral Pharmacists' Association held at Wirral on January 8. Toasts were proposed by Messrs. R. J. Price (president), R. Pilkington and C. H. Crawshaw (vice-presidents), and F. Haworth. Mrs. R. J. Price responded to "The Ladies," the Rt. Hon. H. Graham White, P.C., to "The Guests," and J. H. Steinman (a member of the Pharmaceutical Society's Council) to "Pharmacy." The response to "Forensic Medicine" was made by the guest of honour, Mr. W. H. Grace (Home Office pathologist), who paid a tribute to the help he had received in his work from the scientific staffs of large pharmaceutical manufacturers. The local pharmacy, he said, seemed to be functioning as a well organised machine with the confidence of the public and the friendship and co-operation of the doctors.

Discussion Replaces Address.—The advertised speaker at a recent meeting of the Wirral Branch, Pharmaceutical Society, being prevented by illness from attending, Mr. Walter Deacon, M.B.E. (a member of the Council of the Pharmaceutical Society and of the local branch) stepped into the breach to open a discussion on pharmaceutical matters. Mr. Deacon gave summaries of the penicillin regulations and the National Health Service Act, due to come into operation in July. Mr. Widgery asked whether a scale of payments was proposed irrespective of town, position and overhead expenses, and the speaker said he thought that the scale would be the same, but had no definite knowledge to give. Mr. March foresaw a danger that dispensing might be done by health centres. Mr. Edwards asked whether any salaries were available of wages and rates of pay for pharmaceutical services, and Mr. Deacon replied that the matter was still under discussion. Mr. Widgery thought that progress in education called for a progressive system of payment for services. Mr. Deacon was of the opinion that three years' apprenticeship in a pharmacy was the minimum in which a beginner could get the necessary grounding. Many members considered one year insufficient. Mr. Blackburn thought pharmacists had a different conception of adequate wages from members of other professions, and Mr. March asked where the "super prescribers" were coming from to write the prescriptions for the "super pharmacists" to dispense. It was decided that the venue of the next meeting should be Taunton, in April.

OVERSEAS NEWS

Canadian Price Control.—The Canadian Minister of Finance announced recently that most goods would be removed from price control. The principal items which are to remain under control include the more important oils and fats, excepting olive oil; soap and soap-based detergents of all kinds, except shampoos, shaving creams, dentifrices, paste hand cleaners, soft soaps and liquid soaps.

U.S. Chemicals Production Up.—The U.S. Department of Commerce states that in 1947 U.S. chemical production reached a value of \$9,000 million, against \$8,700 million in 1946 and \$3,300 million in 1939. Chemical exports in 1947 were about 50 per cent. greater than in 1946. Increases in price have been announced of a number of substances including phenol and cresol, calcium, sodium and potassium hypophosphites, oxalic acid and sodium chlorate.

New U.S. Research Body.—A new scientific research organisation representing pharmacy and medicine jointly has been formed in America under the title of the Pharmaceutical-Medical Research Foundation. The organisation, which is to be supported in the main by the pharmaceutical industry, is to be modelled on an already existing Nutrition Foundation. The committee is composed of seven representatives of the pharmaceutical industry and five representatives of the American Medical Association. Dr. R. L. Sersenich (president of the Association) is chairman.

IRISH NEWS

N.I. Health Services Bill.—The Northern Ireland Health Services Bill received its third reading in the Senate in Belfast on January 15, and now awaits Royal Assent before becoming law.

N.I. Traveller's Reminiscences.—Mr. J. R. Guiler, M.P.S.N.I. (Northern Ireland representative, The British Drug Houses, Ltd.), was the speaker at an informal meeting called by the president of the Pharmaceutical Society of Northern Ireland (Mr. John McGregor) and held in Belfast on January 12. Mr. Guiler described some of his experiences as a commercial traveller throughout Ireland in the days when wearing a top hat was *de rigueur*. Those present were entertained to tea by the president, who welcomed Mrs. H. M. Williams and Mr. J. K. Tizard (two members of the Pharmaceutical Society of Great Britain who had become registered with the Northern Ireland Society).

COMPANY NEWS

HUMBLET LABORATORIES, LTD. (P.C.).—Capital £5,000. To carry on the business of manufacturers of and dealers in drugs, pharmaceutical products, medicines, chemicals, etc. First directors are not named. Solicitors: Herbert Smith & Co., 62 London Wall, London, E.C.2.

THEROSEPT, LTD. (P.C.).—Capital £5,000. To carry on the business of manufacturers of and dealers in pharmaceutical, medical, chemical and other preparations, etc. Dr. Madeleine Steiner-Bernier, Dr. Erich Boehm, and Ernest S. Grave, directors. R.O.: Ball, Baker & Co., Spencer House, South Place, London, E.C.2.

IKTHOLINE, LTD. (P.C.).—Capital £100. To acquire the registered trade mark "Iktholine" and to carry on the business of manufacturers of and dealers in soaps, toilet preparations, pharmaceutical products and proprietary medicines, etc. Henry G. Lazell and John O. Rintoul, directors. R.O.: Great West Road, Brentford.

ROBERTS PHARMACEUTICAL LABORATORIES, LTD. (P.C.).—Capital £100. To carry on the business of manufacturers, importers and exporters of and dealers in cosmetics, shampoos, chemicals, drugs, etc. First directors are to be appointed. Solicitors: Warren Murton & Co., 45 Bloomsbury Square, London, W.C.2.

STEWART & PAGE, LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturing, pharmaceutical and general chemists, dealers in beauty preparations and toilet requisites, etc. First directors are to be appointed. Michael S. Naughton, secretary. R.O.: 112 City Road, London, E.C.1.

R. HALL (MANCHESTER), LTD. (P.C.).—Capital £2,500. To acquire the business of pharmaceutical dispensing, analytical and photographic chemists, carried on by Tomlinsons (Manchester), Ltd., at 44 Preston Street, Hulme, Manchester. Robert Hall, M.P.S., Henry Hall and Richard Rouse, directors.

TENZ (IRELAND), LTD. (P.C.).—Registered in Dublin. Capital £1,000. To carry on the business of general merchants, manufacturers, importers and exporters of and dealers in chemicals, drugs and other medicinal preparations. The first directors are not named. Subscriber's address: 117 Upper Leeson Street, Dublin.

PROTOCON, LTD. (Public Company).—Capital £10,000. To acquire and turn to account the benefit of certain secret processes relating to the production of protein and albumen from fish developed by Leon M. Hirschberg. Leon M. Hirschberg, Friedrich Suessmann, Peter H. H. Jones and Francis N. Varney, directors. R.O.: 65 Broad Street Avenue, London, E.C.2.

H. M. HODGES & PEACOCK, LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturers of and dealers in chemicals, drugs, fertilisers, toilet requisite perfumes, photographic and surgical equipment, etc. Herbert M. Hodges, Edward N. Peacock and John van den Bok, directors. R.O.: 21 Water Lane, London, E.C.3.

VOTEX, LTD. (P.C.).—Capital £250. To carry on the business of manufacturers, exporters and importers of and dealers in chemicals, medical, surgical, photographic, optical and dental products, etc., cosmetic chemists' sundries, etc. Alfred N. Emanuele, director. R.O.: 113 High Holborn, London, W.C.1.

WALTER GOLDHILL, LTD. (P.C.).—Capital £5,000. To carry on the business of manufacturers of and dealers in sponges, etc., brush factors and manufacturers, dealers in loofahs, manufacturers of and dealers in synthetic and plastic material and goods, etc. Walter Goldhill and John D. Goldhill, directors. R.O.: 5 Maunston Road, London, N.W.2.

BUSINESS CHANGES

NORTH SHIELDS CO-OPERATIVE CHEMISTS, LTD. have opened a new pharmacy at Whitley Road Whitley Bay.

Mr. F. B. ROYAL, M.P.S., has acquired the business at Broad Street, Eye, Suffolk, formerly carried on by Mr. E. A. Onyon, M.P.S.

WESSEX PHARMACIES, LTD., 439 Millbrook Road Southampton, have acquired the pharmacy at 14 Warren Avenue, Shirley, Southampton, formerly carried on by Mr. C. Cole, M.P.S.

VITAMINS, LTD., have appointed Mr. R. R. Burrows their representative for Nottinghamshire and Lincolnshire and Mr. S. Hannaford their representative for Warwickshire and Worcestershire.

JOHNSTON & ADAMS, LTD., manufacturing chemists, Dundee, have acquired the business at 149 Blackness Road, Dundee, formerly carried on by Miss A. F. C. Thoms.

EVANS MEDICAL SUPPLIES, LTD., have appointed Mr. J. J. Irving chemist representative in the Tyne-side and North Durham area, and Mr. J. W. Snobball chemist representative in the North-east Lancashire area.

Mr. C. R. DIMOND, M.P.S., has been appointed pharmacist to the Mid-Glamorgan County Hospital, Bridgend, Glam. Mr. Dimond was formerly acting deputy-chief pharmacist at the Westminster Hospital, London, S.W.1.

RICHARD BAKER & Co., LTD., Norfolk House, 7 Laurence Pountney Hill, London, E.C.4, inform us that Mr. A. B. Rayner is relinquishing control of the company's interests in Liverpool, which are to be managed by Mr. B. Taylor in conjunction with the directors in the company's London office, Messrs. R. E. Baker and F. W. Brown.

TOPICAL REFLECTIONS

Change in Brunswick Square

There will be a sense of relief throughout the British pharmacy at the decision of the Pharmaceutical Society's Council to make the end of the grandiose scheme for a headquarters in Brunswick Square. Your editorial comment (p. 85) and the official statement on which it is based (p. 89) summarise the course of recent developments in the situation, and leave us hoping for more precise knowledge. Many people's memories are so short where public events are concerned that I may perhaps be allowed a brief review of a few outstanding features of this unhappy history. For most members and friends of the Society it began in 1924 with a speech by the then president at an association dinner in London. From a report in the *C. & D.*, 24.II.779, I take a significant passage: "Why should not the Society possess the best building in the world, including such a school as we might be proud of, with up-to-date laboratories, dispensaries, and so forth? It should have not merely a national but an Imperial museum, and a library that should be a national asset. . . . The cost of the scheme might be estimated at £200,000." This declaration provoked thought and discussion, as the speaker no doubt wished. Experienced observers saw difficulties. In editorial articles you alarmed the Council to beware of unbridled ambition. I do not remember that, except for a few members, there was much enthusiasm about the choice of new and costly headquarters.

Chequered History

From the outset till now, the promoters of the scheme have been in difficulties over their estimates. The matter came into the open at the Society's annual meeting in 1930, when a warning on the cost of the undertaking was given from the chair. Our account of the meeting states: "A sentence that could be felt enveloped the audience. . . ." In 1934 a past-president of the Society contributed an article to *THE CHEMIST AND DRUGGIST* estimating the cost at £257,000. His critics were at pains to prove, as well as they were able, that the cost would probably be less than £200,000. Our readers will have noticed that a total of about £600,000 is now expected for the building "at 1947 prices." One wonders whether there was an undertone of irony in the congratulation of a visitor

at the meeting of the British Pharmaceutical Conference in 1937 when he said that members of the Society of Chemical Industry would watch the new building rise with some envy. There are important problems to be settled in winding up this affair. One is the future of the Society's pharmacological laboratories. Another is the financial arrangements with the University of London. A third is the wishes of donors who have earmarked their contributions. The choice of a site or a building, as the case may be, for administrative offices should not present much difficulty if the Council is moderate in its desires. As I have already suggested, good buildings with historical associations are to be obtained in Central and West London.

Pharmacists as Jurors

The letter of Mr. R. S. Whitelaw (p. 94) brings to light once more an injustice from which pharmacists suffer. As he points out, there is one difference between the law of jury-service in England and Wales and the corresponding law in Scotland. In the latter country, all pharmacists are liable to serve; in England and Wales, pharmaceutical chemists "actually practising" are, in the words of the Juries Act, 1862 (revised by an Act of 1870), "absolutely freed and exempted from being returned or from serving on any juries or inquests whatsoever." In a High Court case in 1892 it was held that the exemption extends to and includes coroners' juries. Under the Juries Act, 1922, the onus is on any person claiming exemption to see that his name is not included in any list of jurors. I have read that the argument advanced in 1862 against exempting chemists and druggists was that if this were done there would not be a sufficient number of suitable persons available to serve. In Scotland, as already mentioned, the position is worse. It is outrageous that any pharmacist should have to motor forty miles on a winter morning to attend a court of law for an unspecified number of days. A further consideration arises. If, when the National Health Service comes into operation this year, proprietors of pharmacies are dragged away in this manner at odd times, the efficiency of the service will almost certainly be lessened, and in some circumstances there may be a breakdown in the dispensing. Why was this contingency not met in the new Act?

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DEATHS

ASHWORTH.—On January 6, Mr. Whitaker Ashworth, M.P.S., 12 Seaforth Road, Seaforth, Liverpool, 21. Mr. Ashworth qualified in 1893.

BELL.—At his home, Allerton Road, Southport, Mr. George Edmund Bell, chairman and managing director of Bell & Sons, Ltd., veterinary chemists, Liverpool, aged fifty-six. He is survived by his widow and two sons, both actively engaged in the business. A colleague writes: His death after a short illness at a comparatively early age leaves a gap hard to fill amongst both business and private friends. He had the gift of instilling enthusiasm into those who worked for him. His ready appreciation of achievement and endeavour, whether directed to the production, distribution or administrative sides of the business, endeared him to his staff. His active mind searched constantly after improvements, better methods and fresh fields of activity, but always with consolidation as he advanced. His ready smile and cheerful way of discussing awkward problems was characteristic. Although he did not live to see all his plans come to fruition, he did at least see his business grow from small beginnings to the present substantial undertaking.

BLACKIE.—At 40 Champion Hill, S.E.5, on January 18, Mr. Robert Blackie, M.P.S., J.P., founder and chairman of Robert Blackie, Ltd., manufacturing chemists, 83 Bellenden Road, London, S.E.15, aged seventy-nine. Mr. Blackie served his apprenticeship with Mr. Sangster, Dufftown, and after a period at Grantham, Lincs, and at Hitchin, Herts, qualified on December 10, 1891. He spent some time with Burn, Harvey & Co. (later incorporated with The British Drug Houses, Ltd.), and then opened his first retail business at Parkers Row, Bermondsey, London. The first factory of Robert Blackie & Co., Ltd., was opened in nearby Tooley Street, and it was soon found necessary to move to larger premises in Tower Bridge Road. After many years of successful business there, a more suitable site was found in Melon Road, Peckham, where the business continued to flourish until the factory was completely demolished by enemy action in September 1940. A colleague (L.J.S.L.) writes: "A man of vigorous and outstanding personality, Mr. Blackie maintained at all times an active interest in business matters and until a few days before his death

devoted his whole time and energy to his most cherished project, the building of new factory to replace that lost during the 1939-45 war. His wise counsel and his shrewd knowledge of human nature will long be remembered by those whose privilege it was to know and work beside him. P.G.F. writes: Of simple tastes, and outstanding personality, the late Mr. Blackie had wide interests outside pharmacy. He was an accomplished violinist, a capable builder—who designed and built a bungalow on his Scottish estate with the help of a single bricklayer—and a practical engineer. An ardent botanist and gardener, he was also a keen student of human nature and was always ready to give advice to all who asked. Mr. Blackie was Laird of Haughs, Banffshire, and a justice of the peace for the county. His interest in all aspects of pharmacy was maintained to the end, and he will long be remembered, both by those whose privilege it was to work under his kindly guidance, and also by his innumerable friends in the drug trade.

CLEAVE.—On December 31, 1947, Mr. Reveryd Cleave, Ph.C., Aire Street Corner Knottingley, Yorks, aged seventy-five. Mr. Cleave qualified as a chemist and druggist in 1893 and passed the Pharmaceutical Chemist examination the same year.

COATES. On January 20, Mr. R. R. Coates, Arncote, Juniper Hill, Rickmansworth, chairman and managing director of Coates & Cooper, Ltd., 21 Eastbury Road, Northwood, Middlesex, aged sixty-three.

HULL.—On December 23, 1947, Mr. Robert Shortliff Hull, M.P.S., Peveril Hotel, North Hill, Colchester, Essex, aged eighty-five.

LOCKERBIE.—At Dumfries, on January 18, John Lockerbie, M.P.S., 6 Nith Place, aged sixty-nine. Mr. Lockerbie, a native of Dumfries, had been in business as a chemist in Dumfries for over fifty years. He was elected to the local town council in 1912 and served as provost, 1939-41. For his services to the Norwegian Forces during the war he was in 1944 made a Knight of St. Olav by the King of Norway.

ROY.—Recently, Mr. Louis Leslie Roy, Ph.C., 62 Browning Road, Enfield, Middlesex. Mr. Roy qualified as a chemist and druggist in 1899, and passed the Pharmaceutical Chemist examination the following year. He was superintendent chemist of Ragg, Ltd., Lower Edmonton.

PERSONALITIES

Mr. J. N. MURRAY, M.P.S., Barrow-in-Furness, has been elected chairman of the Lancashire Prescription Bureau.

MR. FRANK LORD, M.P.S., who has been elected to represent the Institute of



Chemists-Opticians on the Ophthalmic Benefit Approved Committee, and on the Whitley Council for the optical profession, has taken an active part in the affairs of the optical profession for many years. A director of Co-operative Chemists (Sussex), Ltd., Brighton, he was formerly superintendent chemist

Parkstone & Bournemouth Co-operative Society, Ltd., for which he inaugurated that society's pharmacy and optical branches. He was for two years treasurer of the I.C.O. Mr. Lord has a long record of service with the Special Constabulary, and is now serving in Sussex.

MR. E. A. BROCKLEHURST, M.P.S. (a member of the Council of the Pharmaceutical Society and of the Executive of the National Pharmaceutical Union) was the author of a letter published recently in several papers protesting against the levying of purchase tax on medicines.

DR. W. SINCLAIR BROWN, M.P.S., who emigrated to South Africa early in 1947, has been appointed chief lecturer in the department of pharmacology and therapeutics of the University of Witwatersrand, Johannesburg. Dr. Brown served his apprenticeship with J. & D. Hilston, chemists, Newark, and qualified in 1936.

MR. E. A. ONYON, M.P.S., who has retired from business after selling his pharmacy in Broad Street, Eye, Suffolk (see p. 104), had been in business there since 1920. He settled in Eye in 1887 and worked as a dispenser to doctors for thirty-three years before starting in business on his own account. Mr. Onyon, who has a long record of public service in the district, was elected to the local borough council in 1909, and has been mayor of the town thirteen times. He is also an alderman of the county of Suffolk.

LEGAL REPORTS

Pharmacy Act Fines.—At Southampton magistrates' court, recently, Hampton Park Drug Stores, Ltd., were charged with offences under the Pharmacy Acts in connection with a sale of Famel syrup. They pleaded guilty. Fines of 40s. on one charge and 20s. on a second were imposed.

Purchase Tax Appeals Succeed.—London Sessions Appeals Committee on January 8 allowed appeals by H. Strand & Co., Ltd., chemists' sundriesmen, Lapwing Lane, Manchester, and Mr. Walter Reismann (secretary of the company) against an earlier conviction at Woolwich magistrates' court, on charges of dealing in powder compacts having reason to believe that purchase tax on them would be evaded, and of furnishing false purchase tax returns with intent to deceive. The company had been fined £200, with £5 5s. costs on each of the three charges, and Reismann had been sentenced to six months' imprisonment. The sentences were quashed by the Committee, and each appellant was allowed £26 5s. costs. In support of the magistrate's decision, it was stated that a traveller of the company (Mr. O. Landesman) had been instructed by Reismann to sell powder compacts without proper invoices. He was told he need not charge purchase tax and could put any amount over 7s. received for a compact into his own pocket. The proper price was 7s., plus 7s. tax. After the salesman had visited a London chemist, six dozen compacts had arrived at the shop, accompanied by an invoice for one dozen only. In November 1946, a Customs officer who visited Reismann found a discrepancy of over 88 doz. compacts in the company's books. Reismann told him that five dozen had been sent to a customer by mistake. Reismann made a statement that he had not had dealings with Landesman and that the discrepancies had arisen through petty thieving. Without calling upon the appellants to give evidence, their counsel submitted that there was no evidence against the company, and said that Reismann, a man of unblemished character, had been sent to prison for an offence which a glance at the Statute would show was not punishable by imprisonment. Allowing the appeal, the chairman of the Committee said they were not satisfied by the evidence of Mr. Landesman, who was the principal witness for the Crown. "Frankly, we do not believe his story," he added. "We feel that no jury would convict in this case."

TRADE NOTES

Addition to Range.—Addis, Ltd., Hertford, have added a Baby's Wisdom toothbrush to their range.

Agents for Distribution.—Emmet Distributing Co., Ltd., 140 Park Lane, London, W.1, have been appointed distributors of Mai Daye complexion soap.

Record Sales.—H. R. Napp, Ltd., 3 Clement's Inn, London, W.C.2, state that the 1947 sales of their vitamin speciality Abecedin were the highest recorded.

Bonus Offer.—Hough, Hoseason & Co., Ltd., Levenshulme, Manchester, offer a 5 per cent. discount for an assortment parcel made up as listed in the company's announcement elsewhere in this issue.

Now Made in Britain.—Don S. Momand, Ltd., 57 Albany Street, London, N.W.1, announce that Alka-Seltzer antacid is now being manufactured in Great Britain.

In Cartons Again.—Clay & Abraham, Ltd., 87 Bold Street, Liverpool, 1, state that their speciality Ephedrol, for the relief of colds and catarrh, is again being issued in cartons and a display outer.

Nationally Advertised.—Wright, Layman & Umney, Ltd., 44 Southwark Street, London, S.E.1, are advertising, in the national Press, Wright's coal-tar soapless liquid shampoo, which is available in containers of one size.

Bonus Offer Withdrawn.—A special bonus offer of thirteen to the dozen Esobactulin oral vaccine capsules is being withdrawn by the manufacturers, Southon Laboratories, Ltd., 88 Upper Richmond Road, London, S.W.15, at the end of January.

Price Error.—An announcement concerning Bisurated magnesia in a recent issue of THE CHEMIST AND DRUGGIST carried incorrect prices. The manufacturers, the International Chemical Co., Ltd., Clifton House, Euston Road, London, N.W.1, point out that the correct prices for the product are 1s. 9d. and 3s. 7d.

Antibiotic Nasal Solution.—Prothricin, described as a nasal decongestant, has been introduced by Sharp & Dohme, Ltd., Hoddesdon, Herts. The product combines the antibiotic activity of thyrothricin, 0.02 per cent., with the vasoconstricting action of Propadrin hydrochloride, 1.5 per cent. It is issued in 1-oz. bottles, with dropper assembly.

Fluorescent Lamps.—A twelve-page quarto illustrated booklet has been issued by Philips Electrical, Ltd., Century House Shaftesbury Avenue, London, W.C.2, describing their fluorescent industrial lighting fittings for 4-ft., 40-watt lamps. Inquiries should refer to publication A 163 and be addressed to the company's lighting department.

Available as Cream.—A. Wander, Ltd., 55 Albert Hall Mansions, London, S.W.7, have introduced Alocol cream, incorporating colloidal aluminium hydroxide. With Alocol powder and tablets, the new product completes a trio of preparations available for the treatment of hyperacidity in dyspepsia, etc. The cream is issued in bottles of 9 fl. oz.

Again Available.—Ashe Laboratories, Ltd., 120 Victoria Street, London, S.W.1, have reintroduced to the British market Inotyl ointment for eczema, sunburn, etc. The preparation was imported from France on a considerable scale prior to the war. Inotyl is manufactured by an associated company, Therapeutic Developments, Ltd., which is also manufacturing other products of the Laboratoire du Dr. Debat, Paris.

Task Sales Force.—S. Maw, Son & Sons, Ltd., Aldersgate House, New Barnet, Herts, have created a special task sales force to implement an intensive marketing programme during 1948 to increase the sales of Meritor tooth-brushes and Meritor DDT anti-moth, as well as certain specialities of Clinical Products, Ltd., Richmond, Surrey, and Colloidal Chemists, Ltd., London, S.W.1. All the items are being nationally advertised throughout 1948.

Anti-tubercular Drug.—Supplies of Paramisal-sodium brand of para-aminosalicylic acid, which was the material used in clinical trials on patients suffering from pulmonary tuberculosis discussed in the "Lancet" (1947.II.871), are available from Herts Pharmaceuticals, Ltd., Welwyn Garden City, Herts. The drug, for which low toxicity is claimed, is issued in boxes of six ampoules, each containing 10 mls of a 20 per cent. solution.

Eighty-oz. Size Reintroduced.—The Crookes Laboratories, Ltd., Park Royal, London, N.W.10, announce the reintroduction, for dispensing purposes, of an 80-oz. bottle of F.C.V.D., now renamed Crookes Ferromalt (reinforced); no change has been made in the composition of the product. Messrs. Crookes also announce that

new prices are in operation from February for Crookes Tri-antiseptic; details may be obtained from the makers.

Prompt Dispatch. — Carlton Pharmaceutical Industries, Ltd., 78 Bollo Bridge Road, London, W.3, announce that they are now able to dispatch Chilbalm (for chilblains) the day orders are received; earlier delays were caused by circumstances outside the company's control. A reminder is given that the speciality is on the C.F. list and that orders may be sent either direct to the company or to the sole distributors, Megeson & Co., Ltd., Chessington, Surrey.

Committee on Packaging. — To ensure the necessary priority for packaging materials for goods for export, the Federation of British Industries, under its Overseas Policy Committee, has set up a special committee on packaging under the chairmanship of Mr. John Ryan (vice-chairman, Metal Box Co., Ltd.). The committee will go to what it can to ensure that difficulties are minimised. The Packaging Industry Committee of the British Standards Institution is at present actively engaged in revising the Packaging Manual (produced during the war) to bring it more into line with wider commercial requirements; the supplementary Recommendations for Preserving and Packaging in Tropical Theatres of War already represents the most informative information on this subject. The revised sections of the Packaging Manual and the Manual on tropical packaging can be obtained from the British Standards Institution, 28 Victoria Street, London, S.W.1.

Proprietary Articles Trade Association

Alterations to List (Part 2).—*Ilcima Co., Ltd.*, foundation and cleansing cold creams, jars, 3s. 6d. gross, tax 125 per cent., i.r.p. 2s. 5d.; face-powder, 133s. 6d. gross, tax 125 per cent., i.r.p. 2s. 5d.; 55s. 6d. gross, tax 125 per cent., i.r.p. 1s.; wet and dry shampoos, 28s. gross, tax 125 per cent., i.r.p. 4½d.

Ponds Extract Co., Ltd., Ponds face-powder, 18s. 11d. doz., tax 125 per cent., i.r.p. 4s. 1d. **Thos. Reid & Sons, Ltd.**, Bamyl pine-tar toilet-paps (mild and strong), 67s. gross, tax 125 per cent., i.r.p. 10½d.; liquid shampoo, 4-oz., 13s. doz., tax 125 per cent., i.r.p. 2s.

Alterations to Protected List (Part 2). — *Thos. Parley, Ltd.*, Increased prices, January 1, Rodine phosphorus and red squill rat poisons, 12s. doz., 6d.; 24s. doz., 3s.; 48s. doz., 6s. (exempt from tax). Small size (9d.) not available until further notice. Rodine beetle cockroach poison, 6s. doz., 12s. doz., 1s. 6d. (exempt from tax). Minimum order of 36s. (assorted), carriage paid, less 10 per cent. discount cash with order.

A. S. Hinds, Ltd. (correction), Hinds honey and almond cream (trial size), 5s. 9d. doz., tax 125 per cent., i.r.p. 1s. 3d.

Marie Antoinette Co., Ltd., Revised prices, January 1, Marie Antoinette shampoo powder, 32s. gross, tax 50 per cent., i.r.p. 5½d.

Solport Bros., Ltd., Portia netted hammocks, No. D.57, 28s. doz., tax 50 per cent., i.r.p. 4s. 8d.; baby-weighing outfits, No. D.60, 60s. doz., tax 50 per cent., i.r.p. 10s.

Chas. H. Phillips Chemical Co., Ltd., Prices in Eire, Phillips' magnesia beauty creams, 10s. doz., 1s. 1½d.; 28s. 3d. doz., 3s. 3d.; 55s. 6d. doz., 6s. 3d.

COMING EVENTS

Monday, January 26

ROYAL SOCIETY OF ARTS, John Adam Street, Adelphi, London, W.C.2, at 4.30 p.m. Dr. C. H. Andrewes, F.R.S., on "The Common Cold."

Tuesday, January 27

NORTH METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY, Beale's Restaurant (side entrance), Holloway Road, London, N.7, at 7.30 p.m. Mr. W. J. Arrol, Ph.D., on "The Beneficial Uses of Atomic Energy."

Thursday, January 29

CHEMISTS FEDERATION, Holborn Restaurant, London, W.C.2, 12.30 p.m. for 1 p.m. Annual luncheon.

MANCHESTER PHARMACEUTICAL ASSOCIATION, JUNIOR BRANCH, Council Chambers, Houldsworth Hall, Manchester, at 7.45 p.m. Whist drive.

NOTTINGHAM BRANCH, PHARMACEUTICAL SOCIETY, Elite Ballroom, Nottingham, 7.30 p.m. to midnight. Dance (informal dress). Tickets (5s. 6d. each) from Mr. F. A. Bates, 195 Berridge Road, Nottingham.

WEMBLEY BRANCH, PHARMACEUTICAL SOCIETY, TOWN Hall, Wembley, at 7.45 p.m. Mr. C. Beaven on "The Riddle of Allergy."

Friday, January 30

CHESTER BRANCH, PHARMACEUTICAL SOCIETY, Blossoms Hotel, Foregate Street, Chester, at 8 p.m. Mr. C. Beaven on "The Riddle of Allergy."

Saturday, January 31

ASSOCIATION OF SCIENTIFIC WORKERS, Midland Hotel, Manchester, at 3 p.m. Discussion on salaries and conditions in the National Health Service. Speakers: Dr. John Humphrey and Mr. Ben Smith.

Monday, February 2

SOUTHAMPTON BRANCH, PHARMACEUTICAL SOCIETY, Polygon Hotel, Southampton, at 7.30 p.m. Mr. T. D. Whittet on "A Survey of Modern Drugs."

WEST KENT BRANCH, PHARMACEUTICAL SOCIETY, Central Library Hall, Beckenham, at 8 p.m. Debate: "Should Pharmacy be a Profession or a Business?"

THE SOCIETY OF CHEMICAL INDUSTRY is holding its 1948 annual meeting in Edinburgh, July 12-17.

LONDON BRANCH, GUILD OF PUBLIC PHARMACISTS, is holding a dinner and dance at Slater's restaurant, 393 Strand, London, W.C.2, on Friday, February 20, 6.30 for 7 p.m. Tickets (17s. 6d. each) from Mr. S. Powlson, Pharmaceutical Department, University College Hospital, Gower Street, London, W.C.1.

INSURANCE ACT DISPENSING

Wales.—At the annual conference of the Association of Welsh Insurance Committees, held at Colwyn Bay in October 1947, it was stated that the cost of prescriptions in Wales had risen from £31,243 in 1916 to £204,974 in 1946. 3,366,449 prescriptions were issued to insured persons, compared with 1,247,403 thirty years ago. Highest prescription cost was again in Caernarvonshire, totalling 6s. 3½d. for each insured person.

Derbyshire.—According to the report of the Derbyshire Insurance Committee for 1946, 1,020,691 prescriptions were dispensed at an average cost per prescription of 13.8d. 203 chemists, representing 278 pharmacies, were under contract and seventeen contractors were registered for the supply of appliances only. The amount paid for drugs and appliances was £42,098 and for dispensing fees £26,193, a total increase of £13,475 against 1945.

Sheffield.—The recently published report of the Sheffield Pharmaceutical

Committee for 1943-47 includes the following prescription figures:—

PARTICULARS	1944	1945	1946 (Jan.- Oct.)
Scripts forms	877,262	853,652	704,111
Prescriptions	1,207,698	1,196,673	1,000,241
Total cost of ingredients	d. 6,854,643.1	d. 7,225,854.4	—
Total dispensing fees	d. 6,426,103.0	d. 7,262,941.0	—
Average cost per prescription ingredients	5.7d.	6.0d.	6.5d.
dispensing fees	5.3d.	6.1d.	6.1d.
Prescription frequency per insured person	5.09	5.06	4.05
Average total cost per insured person	55.9d.	61.3d.	50.9d.

BRIGHTER PROSPECT FOR PHARMACY

MR. G. A. MALLINSON, O.B.E. (secretary, National Pharmaceutical Union), addressing the Birmingham Branch of the N.P.U. on January 6, thought the prospect for pharmacy was brighter than ever before. A higher standard of pharmaceutical education was essential, but the Pharmaceutical Society's plans might well be delayed until some experience of the National Health Service had been gained. Higher standards of education, he thought, would not necessarily ensure higher rates of remuneration.

Mr. Mallinson described how a conference of representatives of Pharmaceutical Committees had determined that the N.H.S. contract should be negotiated by the Contractors' Committee of the N.P.U. He also announced that, in the new service, container charges would be paid for by the State, and that doctors would be required to use a separate prescription form for each patient. No development affecting chemists' contract terms could be expected until the pharmacy working party had completed its inquiry. The contract could be varied from time to time without having to negotiate a new contract.

There was a move in some quarters, he said, to revise the Pharmaceutical Society's

Charter because it hampered the Society in dealing with business matters. The Jenkins case had freed the Society from such worries twenty-five years ago, when the N.P.U. had been formed, and it would be a mistake to change that position.

MR. YATES, Stourbridge, said that pharmacists might not be able to undertake the new service whilst the shortage of qualified persons continued. MR. MALLINSON thought the solution was to get more non-technical help and release the pharmacist for professional work. MR. W. J. IZON considered the present rates of remuneration totally inadequate. MR. H. BUCKINGHAM suggested that children's prescription should be on forms of a different colour but MR. MALLINSON considered that the introduction of mechanical safeguards was not without its drawbacks. MR. A. GROSVENOR thought doctors should be required to state on prescription forms whether the patient was Mr., Mrs. or Miss, and, in addition, the age of a child patient. Chemists should do all the dispensing in rural areas; they could use the same means of delivery as the doctors had used. A vote of thanks to Mr. Mallinson was proposed by MR. IZON and seconded by MR. S. HARRIS.

NEW BOOKS

Handbook of Preventive Medicine.—
Ministry, 8½ in. x 6½ in. Pp. 213.

6d., H.M. Stationery Office, York House, Kingsway, London, W.C.2. The compilers have compressed within the covers of a pocket-size book a wealth of information on preventive medicine. Unfortunately, many sections are likely to be of only incidental use to pharmacists, but there are a useful four-page digest on the sources and effects of vitamins; paragraphs on purification and sterilisation of water; and notes on the use of DDT, the gamma isomer of benzene hexachloride, butyl phthalate, and dimethyl phthalate for insect control and personal disinfection. A loose-leaf work with board covers, the volume is tied with removable cord.

Model Safety Rules for Use in Chemical Works (Part 1: Model Rules).

7½ in. x 4½ in. Pp. 70. Association of British Chemical Manufacturers, 16 Piccadilly, London, W.1. This extremely useful handbook should be in the hands of every safety officer, works manager, or other member of the higher supervisory production staff of a chemical works.

The general arrangement it closely follows the first edition, published in 1929, but the rules have been revised to bring them into line with current legislation. The book endeavours successfully to codify conveniently the requirements of the Factories Act of 1937, the Chemical Works Regulations of 1922, and certain related Statutory Orders and Regulations. Emphasis is placed on the need for adequate provisions against fire and explosion risks, which are perhaps greater in the chemical than in any other

industry. At the same time, greater prominence is given in the revised rules to the health and welfare of workers. New features include recommendations to appoint a safety officer in each works to advise the management on safety matters, and to appoint works safety committees; to ascertain all the operation and chemical hazards involved before commencing any large-scale experimental work or any new manufacture (a point frequently overlooked at the research stage, where working conditions are usually quite different from those obtaining in the factory). A note could usefully have been added that the safety officer should be brought into discussions on new processes before they are given over to the works — in fact, while plans for new plant and installation are still on the drawing board; and to instruct employees in the action to be taken in emergency as well as in the general hazards of their employment — a most important rule, unfortunately sadly neglected in many factories.

The International Mercantile Diary and Year-book, 1947. — 9¾ in. x 7¼ in. Pp. 284 and diary and fourteen appendices. Syren & Shipping, Ltd., 26 Billiter Street, London, E.C.3. 25s. post free. The thirty-second issue of this exporters' vade-mecum should find new friends among manufacturers who have only recently, under Government pressure, become export-conscious. It gives invaluable information on preferences and duties, postal regulations, insurances, etc., in Great Britain, following the section with similar information about every other country in the world. An index and gazeteer are included.

MODERN CANADIAN DISPENSARY.

The growing tendency towards "prescription only" pharmacies in Canada is referred to in a Canadian correspondent on p. 127. The picture shows a good example of the trend. It is part of a pharmacy at Toronto, Ontario.



CAPILLARY FRAGILITY, VITAMIN P AND RUTIN

By a Medical Correspondent

CAPILLARY fragility is an abnormal state of the minute blood-vessels which renders them liable to rupture on comparatively slight pressure, in consequence of which blood leaks out of the capillaries. If this occurs in the capillaries just below the surface of the skin the bleeding is denoted by purplish stains varying in size according to the extent of the hæmorrhage. If the ruptured capillaries are near the surface of a mucous membrane the bleeding may occur on the exterior, causing bleeding from the gums or from the lining of the alimentary tract. The easy rupture of the capillaries is the result of damage of the endothelial cells of which the capillary wall is composed, and the damage may be caused by the lack of essential nutritional factors, or by the toxins of bacteria or of poisonous drugs. Diseases in which increased fragility of the capillaries is present, and in which submucous or subcutaneous hæmorrhage are typical features, are grouped as purpuras.

Vitamin P Discovered

Lack of vitamin C is primarily responsible for the symptoms of scurvy a condition allied to capillary fragility, but in many cases of this disease the administration of synthetic vitamin C (ascorbic acid) alone fails to cure the hæmorrhage, whereas the administration of lemon juice or other natural source of vitamin C is effective. Laboratory confirmation of this was given rather more than ten years ago by the discovery of a substance, present with vitamin C in lemon juice and in some other fruits, which corrected increased fragility of the capillary blood-vessels of guinea pigs fed experimentally on a diet deficient in vitamin C. The substance was believed to have a vitamin-like action and was termed vitamin P (permeability vitamin), in 1936, by Szent-Gyorgi. Extracts from these plant sources yielded a fraction which consisted of a flavone glycoside, termed citrin, which was reported to be effective clinically in some cases of purpura. Further study revealed that it was composed largely of the glycoside hesperidin, while another constituent was said to be the glycoside of eriodictyol. Efforts to repeat the observations have led to conflicting results in animal experiments and in clinical trials. Controversy is centred around the chemical identity of vitamin P and the validity of the

biological tests on which the evidence for the existence of a capillary permeability is based. The experiments of Zacho, 1939, were regarded as establishing that citrin controlled capillary permeability in scorbutic guinea pigs, when vitamin C alone was inactive. Further confirmation was given in 1941 by Rusznyak and Benko, who found that citrin, given by subcutaneous injection, rapidly restored to normal a lowered capillary resistance in rats. On the clinical side the work of Scarborough has produced evidence in favour of the view that vitamin P is an essential factor in human nutrition, being necessary for the maintenance of capillary resistance, and that extracts made from lemon juice and orange juice produced an increase in the resistance of capillary walls of patients suffering from multiple vitamin deficiencies. Scarborough described the clinical manifestations of vitamin P deficiency, which are always associated with decreased capillary resistance, and may result in minute pin-point hæmorrhages. Vitamin P was used by Scarborough and Home (1940) with success in the treatment of purpuras occurring in patients treated with bismuth or arsenic. It has also been reported to control hæmorrhage in anaphylactoid purpura when given as citrin in doses of 20 mg. intramuscularly twice weekly or as calcium eriodictate 150 mgm. daily.

Determination of Capillary Fragility

There are three principal methods for the determination of capillary fragility:—

1. THE **TOURNIQUET TEST**—introduced in 1911 by Weill and Rampel, and by Leede and others. Qualitative modifications were introduced by Jones and Tocantis ("American Journal of Medical Science," 1933. 185. 535), and quantitative modifications by Göthlin ("Skandinavisches Archiv Physiologie," 1931. 61. 225), who used the test as a method of establishing the vitamin C requirements of healthy individuals.

2. THE **INTRADERMAL VENOM TEST**—described by Peck, Rosenthal and Erf ("Journal of the American Medical Association, 1936. 106. 1783), and used by them in the study of thrombocytopenic purpura hæmorrhagica. A dilute solution (1:3000) of mocassin snake venom, standardised on its content of hæmorrhagins, is injected intradermally in a dose of 0.1 mil, while 0.1

oil of normal saline injected intradermally into another area of skin acts as a control. A "positive" reaction indicating increased capillary fragility is shown as bruising under



BUCKWHEAT (*Fagopyrum esculentum*).—Described by Johnson (see C. & D., 1946.11.33) as the most promising natural source of rutin. Rutin may be extracted (by maceration, subsequent concentration of the solution, and crystallisation) from the freshly harvested plant, or from leaf meal, dried soon after harvesting. Buckwheat is richest in rutin at the "three-to-five blossom stage." Crops for rutin production have been grown in Britain.

the skin, produced by the diffusion of blood from ruptured capillary vessels, and may be seen one hour after the injection. A delayed positive reaction, which may sometimes occur after twelve hours, is not of diagnostic significance.

3. THE SUCTION METHOD—first described by Hecht in 1907, but not exten-

sively accepted until 1933, when Dalldorf improved the technique and used it for the study of subclinical scurvy in man ("American Journal of Diseases of Children," 1933. 46. 794). In this test suction at a given negative pressure is applied to the forearm about 2 cm. below the bend of the elbow for one minute, and a positive reaction is taken as one in which at least two petechiae are clearly visible. The degree of capillary resistance is assessed by the minimum amount of suction which has to be applied to produce a positive reaction. Owing to variable factors in the skin and light intensity the method is not absolutely accurate, but Elliott ("Journal of the American Medical Association," 1938. 110. 1177) reported that it gives a reasonably accurate estimate of the state and changes of capillary resistance when performed on a given area of skin by a single observer.

Improved Technique

A method of determining the capillary fragility put forward by Göthlin (1931) was investigated by Bell, Lazarus, and Munro ("Lancet," 1940. 239. 155), who standardised the technique and defined the range of normal values for healthy people. The test depends upon the fact that, if the pressure in the capillaries is increased artificially above the normal (15 to 30 mm. of mercury), there is a tendency for small hæmorrhages to develop in the skin. The number of these hæmorrhages occurring under standard conditions is taken as an index of the capillary fragility or resistance. Under the conditions of the test a petechial count of eight or over is regarded as unusual. In most cases where the figure was eight or more, vitamin C administered by mouth reduced the petechial count to eight or less in two weeks. The injection of vitamin C had no effect on petechial counts below eight. In a series of 346 subjects with increased capillary fragility, five derived no benefit from large doses of vitamin C or from the administration of 1 gm. of hesperidin (vitamin P) daily for ten days. It seems, therefore, that, apart from menstruation, and abnormal influences such as fever, or the administration of heavy metals, which are known to influence capillary fragility in health, some other factors must be involved.

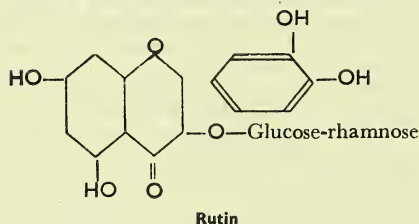
The capillary fragility in any individual is not constant throughout the year. According to Gedda ("Skandinavisches Archiv Physiologie," 1931. 63. 306) it is

highest in the spring and lowest in the autumn. Greene ("Journal of the American Medical Association," 1934. 103. 4) stated that, in children, it is not even reasonably constant over a much shorter time. Molitch, on the other hand ("Journal of Laboratory and Clinical Medicine," 1935. 21. 43), examined a group of children at intervals over a period of several months and observed no significant variations.

Effect of Rutin

Interest in capillary fragility, and its significance in certain blood diseases was renewed by the announcement by a group of workers of the Eastern Regional Research Laboratory of the United States Department of Agriculture at Philadelphia that another glycoside, rutin, which is present in the leaves and flowers of many plants, had an activity resembling that of vitamin P on capillary blood vessels.

Pure rutin is a yellow, tasteless powder consisting of masses of microscopic acicular crystals, which become plastic at 182-92° C,



and decompose at 214-15° C. It is soluble only 0.13 gm. per litre in cold water, but is much more soluble in boiling water, in methyl and ethyl alcohols, acetone, ethyl acetate, pyridine and alkaline solutions. Rutin is insoluble in chloroform ether, benzene, and petroleum solvents, and decomposes on exposure to light, yielding quercitrin, glucose and rhamnose.

Griffith and others ("Proceedings of the Society of Experimental Biology and Medicine," 1944.55.228) investigated the occurrence of increased capillary fragility in relation to high blood pressure, diabetes mellitus and some other conditions, and found excessive fragility in 21 per cent. of 1,219 patients examined with high blood pressure. Rutin administered in doses of 60 to 180 mgm. daily was effective in correcting increased capillary fragility in 75 per cent. of their cases. Beaser, Rudy and Seligman ("Archives of International Medicine," 1944.73.18), reporting on sixty-seven cases, placed the incidence of

raised capillary fragility in hypertension at 53 per cent. They also found it in 54 per cent. of thirty-nine cases of diabetes mellitus without raised blood pressure, and in fifteen cases of hypertension accompanying diabetes.

Capillary fragility is increased in patients receiving potassium thiocyanate for the treatment of high blood pressure, but is corrected by the simultaneous administration of rutin. The tendency in these patients to retinal hæmorrhages and small hæmorrhages in the brain is at the same time reduced. Capillary fragility is especially marked in cases of diabetic retinitis, and the effect of rutin on the occurrence of retinal hæmorrhages in diabetic patients is being investigated.

Rutin in Capillary Permeability

As the capillaries may be permeable to fluid without any rupture of their walls, it is necessary to distinguish between capillary fragility and capillary permeability. Griffith, Lindauer, Shanno and Couch ("Proceedings of the Society for Experimental Biology and Medicine" in the press), who investigated capillary permeability using a blue colloidal dye injected subcutaneously, found that increased cutaneous permeability was restored to normal after the administration of rutin, whether there was an associated capillary fragility or not.

Increased capillary fragility is often associated with increased cutaneous lymphatic flow, and with a consequent passing of fluid through the capillary wall. This may occur as a result of increased capillary pressure, following pituitary or kidney disease. The permeability of the capillaries is diminished after rutin treatment.

Studies of the pharmacology of rutin have indicated that the substance is non-toxic, doses of 100 mgm. three times a day having been given to adult human patients without toxic effect. An antihistamine action was ascribed to rutin by Wilson Mortarotti and De Eds ("Journal of Pharmacology and Experimental Therapeutics," 1947.90.120), who reported that, in guinea pigs, the mortality from histamine shock decreased when the rutin was given intraperitoneally ten to thirty minutes before the histamine. No similar action was observed, however, when the two substances were given simultaneously, or when the interval between the administration of rutin and histamine was forty-five minutes or longer. They suggested that the antihistamine effect was brought about indirectly because rutin delays the oxidation of adren-

line in the blood. These workers reported, contrary to Zacho ("Acta Pathologica Microbiologica Scandinavica," 1939.16.44) and Bacharach, Coates and Middleton ("Biochemical Journal," 1942.36.407), that the capillary fragility test in rabbits was not a satisfactory method for assessing vitamin P activity.

No anti-histamine action was demonstrated in the tests carried out by Raiman, later and Nicheles ("Science," 1947. October 17, p. 368), but they reported that rutin effectively protected against the anaphylactic reaction in guinea pigs. The protective effect may be due to the prevention of the liberation of endogenous histamine, and possibly by factors other than those which increase capillary permeability.

The possible value of rutin in glaucoma was noted by Stocker ("Archives of Oph-

thalmology," 1947.37.586), who tested the effect of large doses of rutin given by mouth for several weeks on the permeability of the blood-aqueous barrier of the eye in rabbits. The drug seemed to have a tightening effect upon the capillary walls and the action of physostigmine, which is known to increase the permeability of this barrier when instilled into the conjunctival sac, was greatly reduced if the animals had previously received rutin. As rutin had been found to tighten the capillary walls, it was thought that a combination of rutin with a myotic agent might improve the pressure-reducing action of rutin in cases where increased capillary permeability would antagonise the myotic action. Stocker was able to reduce the tension in a number of cases of glaucoma more effectively by giving rutin orally together with a myotic in the eye than by giving the myotic alone.

RECENT RESEARCH

Toxicity of Iron Preparations.—Following three recent instances in which young children have taken excessive numbers of ferrous sulphate tablets, with fatal results, G. F. Somers ("British Medical Journal," 1947.II.201) has investigated the effect of administering orally to laboratory animals very large doses of the following iron preparations: Ferrous sulphate, ferrous sulphate with traces of copper and manganese, ferrous carbonate (in Blaud's pill), ferrous gluconate, ferric chloride, and iron and ammonium citrate. Rabbits and guinea-pigs were used for studying the pathology and histology of any disturbances observed, while mice were used for estimating the median lethal doses (LD 50). The results are shown below:—

MEDIAN LETHAL TOXIC DOSES.

COMPOUND	Percentage of iron calculated as Fe	Dose gm. per kilo body weight (calculated as Fe)		
		Rabbits	Guinea-pigs	Mice
Ferrous sulphate crystals ..	20	0.6	0.3	0.9
Ferrous sulphate prep. with copper and manganese ..	24	0.72	0.3	1.0
Ferrous gluconate ..	16.6	0.58	0.35	1.1
Ferrous carbonate pills ..	12.5	2.22	2.0	3.8
Ferric chloride ..	34	0.4	0.2	0.5
Ferric and ammonium citrate ..	20	0.56	0.35	1.0

The results show (1) The presence of small amounts of copper and manganese sul-

phate make no difference to the toxicity of the iron or ferrous sulphate. (2) The iron, in ferrous sulphate, ferrous gluconate, and iron and ammonium citrate, had the same toxicity. (3) The iron in Blaud's pill has about one quarter the toxicity of the other forms, probably because of the relative insolubility of ferrous carbonate in gastric and intestinal contents. (It is suggested that sodium carbonate or bicarbonate might prove a useful antidote to toxic oral doses of iron.) (4) Ferric iron appears to be twice as toxic as ferrous iron, perhaps because the acidity of ferric chloride hastens alimentary absorption. From the results of the experiments on laboratory animals, the author considers it reasonable and "a wise precaution" to accept as proved that all similar iron compounds can, in excessively large doses, prove fatal to man, but the amount of ferrous sulphate that would prove fatal to an adult would represent at least several hundred 3-gr. tablets taken all at one time and on an empty stomach.

Assay of Heparin.—A method of assaying heparin by observing the clotting effect of samples on sheep and bovine plasma has been described by Foster ("Journal of the American Pharmaceutical Association, Scientific Edition," 1947.II.243). A comparison of the effect of the sample under test is made against that of a standard preparation in a dose giving a 2+ or 50 per cent. clot, and is known as the CD_{50} of the sample. It is estimated by plotting or interpolating the data.



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L. CXLIX JANUARY 24, 1948 No. 3544

Accent on Pharmacy

SIGNAL service was done to the craft of pharmacy by the speaker (Mr. A. G. Fishburn, Ph.C.) at the Pharmaceutical Society's evening meeting on January 15, as much as the succession of fruitful ideas which he expounded as for the note of confidence which he both displayed and engendered in the validity and prospects of pharmaceutical research as a subject in its own right. In a sense, it should not be necessary at this stage in the development of pharmacy to emphasise the importance of purely pharmaceutical research, but it has, unfortunately, been recognised and widely explored that too often a research worker whose starting-point is a qualification in pharmacy is attracted to other fields, such as those of pure chemistry, bacteriology, etc. Mr. Fishburn showed that this tendency was not inevitable. He put forward a number of suggestions that would have the effect of retaining within the craft some of its best brains—to the good of pharmacy as a whole yet without loss to the individual workers concerned.

The first thing is to recognise the true boundaries of pharmaceutical research and to keep within them. By doing so, a worker does not lessen but enhances the importance of pharmaceutical research as a separate study. The borders clear in his mind, he can and should then show more initiative in his own field than has, perhaps, always been shown in the past. What is the true field of pharmaceutical research? The speaker analysed it as consisting (a) of formulation (covering every

stage of manipulation from the primary materials to the final packed product), and (b) of testing (covering analyses of the quality, stability, potency, etc., of the original drug and of the formulated article). To illustrate how wide was the scope of work waiting to be done in these categories, Mr. Fishburn drew attention to important gaps in the present body of knowledge—among them the lack of a complete range of chemically standardised and biologically tested excipients for preparing pharmaceutical emulsions, the absence of classified ranges of such adjuncts as wetting and dispersing agents, and so forth. The armamentarium of the research worker in other industries was, he pointed out, much more complete, often in the very items in the knowledge of which it might have been expected that the pharmacist would have been pre-eminent. If this was true about the materials which the pharmacist in manufacture was called upon to use, it was true also, to an extent only slightly less, of the machinery and plant available to those engaged in formulating new medicaments. In this respect also, other industries had gone far beyond pharmaceutical manufacture, and valuable work could be done by applying to pharmaceutical purposes some of the advances to be noted in the machinery and plant in daily use in the technical processes of other industries.

Mr. Fishburn was critical, though constructively so, of the present arrangements for, on the one hand, stimulating, and, on the other, co-ordinating pharmaceutical researches. Instead of the now lapsed method of issuing a "research list," the British Pharmaceutical Conference could provide a more positive stimulus to research. Even better would be the establishment of a "Pharmaceutical Research Council," which could perform the double function of guiding pharmaceutical research and of collaborating with the Medical Research Council on any matters involving the presentation or quality control of drugs and medicaments. Such a council could well undertake also to organise pharmaceutical trials of a new product or preparation among a number of research centres, not necessarily all in the same type of laboratory

(e.g., academic, manufacturing or hospital) as that in which the initial work had been carried out. A more scientific and less empirical approach would thus gradually become general.

The points made in the address deserve the fullest consideration by all members of the Pharmaceutical Society, whether directly or only indirectly concerned with pharmaceutical research, and it is satisfactory that a promise was given by the chairman of the meeting (Mr. C. W. Mapleson), who is also the chairman of the Society's Education Committee, that the suggestion to establish a Pharmaceutical Research Council would be brought before the Council of the Society for discussion. We have no doubt that manufacturers in the trade will accord their full support.

Streptomycin: The Way Ahead

SINCE much of the early clinical work on streptomycin was performed in the Mayo Clinic at Rochester, Minnesota, U.S.A., special importance attaches to a paper by Feldman and Hinshaw (workers at the Mayo Clinic) on this "valuable anti-tuberculosis agent" published in the January 17 issue of the "British Medical Journal"—especially as investigations upon its use in tuberculosis in this country commenced at a disadvantage of about two years in time as compared with the trials in America.

In the pharmaceutical field no less than the medical, there is scope for work in a search for "an ideal anti-tuberculous drug" that may become "one of the most important and exciting adventures in medical research." With the object lesson of penicillin in mind (and, as was pointed out by a pharmaceutical speaker recently, the pharmaceutical aspects of penicillin were considered almost as an afterthought), research workers in pharmacy would be well advised to give full attention to methods of presenting streptomycin so that its healing properties are capable of being exerted to the full in any treatment decided upon. Feldman and Hinshaw emphasise that the drug should often be used in combination with, rather than as a substitute for, other therapeutic measures such as hospitalisation at a sanatorium, collapse therapy and surgery. A noteworthy point is that, unlike penicillin, streptomycin has proved incap-

able of sterilising large collections of perhaps because of the diminution of activity in an acid medium. Against the protection it affords enables such collections of pus to be drained surgically without it, the draining would have been inadvisable. A parallel to recent work on penicillin is to be seen in the fact that tubercle bacilli tend to develop a resistance to streptomycin. Pyle (another worker at the Clinic) suggests that, before treatment of the tubercle bacilli population is sensitive to streptomycin, but that there also present a number resistant variants, treatment is long-continued, the drug-sensitive population becomes replaced by drug-resistant population. How best to meet this problem is one of the most pressing questions confronting bacteriologists at the moment. To overcome the resistance, workers have suggested using streptomycin in conjunction with another antibiotic. Walman ("Journal of the American Medical Association," 47:II.478) describes the use of streptomycin with sulphones as "showing promise"; a possible connection is suggested between tuberculosis and leprosy. Equally pressing are the problems of elucidating the mode of action of streptomycin and of determining the effective minimum doses for different types of disease.

A PHARMACIST'S ANTHOLOGY

IT was not until Ching-kwei had reached an intermediate village on the following day that a chance allusion to a holy man recalled the second detail of his journey. . . . The anchorite welcomed Ching-kwei affably. . . . The nature of the tale occasioned him no concern, as with unfailing accuracy he at once detected, by a few well-chosen diagrams, the personality of the malign influence at work.

"Should any of the indicated substance be difficult to procure, do not let that disturb the confidence of your venerable progenitor," he remarked considerably, as he inscribed certain words and symbols on a shred of parchment. "If she will inconvenience herself to the extent of swallowing the written directions in the suitable form of a pill the result will be equally beneficent."

(From "Kai Lung Unrolls His Mat,"
by Ernest Bramhall)

MR. HIRST AT BOURNEMOUTH

H. M. HIRST (a member of the Pharmaceutical Society's Council), at a meeting of the Bournemouth Pharmaceutical Association on January 8, gave an address which, in the words of one of his audience, ended in "lifting a lot of lids off a lot of pots."

Necessary Changes in Examinations

Mr. Hirst said he was convinced that, for the Society's final examination, a two-year course was necessary, but he could not see that every student should be compelled to take a purely professional examination of a standard higher than the present Ph.C. Two classes of qualification were necessary: One for those intending to work in hospitals, manufacturing laboratories or research; a second for retail work.

National Health Service dispensing. There was nothing new in having two qualifications within one profession. In medicine there were specialists and general practitioners; in law, barristers and solicitors.

Of 406 entrants for the Chemist and Assistant Qualifying examination in 1946, 264 had passed; of 117 entrants for the Pharmaceutical Chemist examination, seventy-two had passed. Many of those who failed in the Society's examinations became unqualified assistants, but were set up in opposition as drug-store promoters. The reason for the failures was that the examinations were too difficult, that the course of training was too short. Those who could not qualify could be given a chance to become registered assistants (or what Messrs. C. W. Plethorpe and H. N. Linstead had referred to as "pharmaceutical technicians").

In November 1947, continued Mr. Hirst, the pharmacies had been approved for training apprentices, but only thirty-nine of them were "private" pharmacies. Unless proprietor pharmacists woke up, nearly all available pharmaceutical labour in fifteen or twenty years' time would be company-trained and company-minded.

The Society had agreed to pay London University £10,000 a year for five years to take over the Society's College, which had run a deficit of £13,000 in the past year. The University was also negotiating for the purchase of the Society's "white elephant" building in Brunswick Square. Developments, said Mr. Hirst, would need to be watched closely.

Praising the way in which the Society's convalescent home, Birdsgrove House, was run, and the amenities offered, Mr. Hirst

nevertheless thought the charges too low. The home should be financed not from the Benevolent Fund but from its own separate fund.

Mr. L. OWEN (chairman) then invited questions from members. Mr. M. FAY asked why the "Square" worked at such a loss when other colleges, with as high a pass percentage, worked at a profit. Mr. HIRST said the reason had been the demands made by the London University in such matters as rates of pay for professors. In about 1928 the College had been made a constituent member of London University, from which it had since received a grant of £600 a year.

Mr. LUCAS: Is the proposed higher education for the ultimate good of pharmacy?

—Mr. HIRST: No. Mr. F. H. WELLS: Is there any hope of improving the pharmacist's position in the Forces? Mr. HIRST: In the Navy and Air Force, yes; in the Army, no, unless there is a great change in administration.

Mr. N. K. PHILLIPS asked what authority the secretary of the Society had, when speaking to branches, to put forward suggestions such as establishing a class of pharmaceutical technicians. Mr. HIRST said he often disagreed with the secretary.

Mr. D. JONES: Is the Joint Committee on a National Pharmaceutical Service still functioning? Mr. HIRST: According to Mr. F. C. Wilson some time ago, the Joint Committee is as dead as the dodo, but it met last week. Mr. L. OWEN: Since the Society's journal gives only edited reports of Council meetings, could we, as a branch, ask for verbatim reports? Mr. HIRST: You could ask, but I think your letter would lie on the table.

Criticism of Council

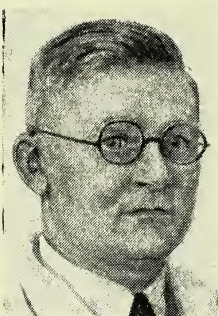
Moving a vote of thanks to Mr. Hirst, Mr. L. SLOPER felt that "super-education" was unnecessary for the craft. What work would all the Bachelors of Pharmacy do? He thanked Mr. Hirst for lifting a lot of lids off a lot of pots and opening members' eyes to what went on inside the Council. Seconding, Mr. G. TITMAN said that much of the apathy at Council elections resulted because members thought the Council was run dictatorially and that everything came down from headquarters cut and dried.

At the request of Mr. M. FAY (immediate past-president), Mr. Hirst then formally presented to the president (Mr. Leslie Owen) a new badge of office for the purchase of which members had subscribed.

STATUS OF PHARMACEUTICAL RESEARCH

Mr. A. G. Fishburn, Ph.C., F.R.I.C., D.P.A., in an address to Evening Meeting of the Pharmaceutical Society in London on January 15, discussed "The Place of Pharmaceutical Research in Medicine"

ADVANCES in medicine frequently depend for their success on the collaboration of a



Mr. A. G. Fishburn, Ph.C.

research team, each member possessing specialised knowledge in his own subject. In such a team the pharmacist may occupy an important, and in some respects a central position. His responsibility is to bridge the gap between the chemist and biologist at the one extreme and the medical or veterinary practitioner at the other. If his work is well done, the clinician receives a stable product, convenient in use, and capable of exerting maximum therapeutic effect. If, on the other hand, his work is not maintained at the same level as that of his collaborators, the drug may fall into bad repute from inactivation due to faulty formulation, clumsiness in presentation, or deterioration during storage. A similar situation exists in developmental work on drugs of natural origin.

Lines of Approach

There is no lack of material for research by the pharmacist, either alone or in collaboration with chemist, biologist, doctor, or veterinarian. My object is to indicate lines of approach to pharmaceutical research and suggest methods of development. At the outset it is essential for the pharmacist to appreciate the scope of his subject. Doctor and veterinarian are prepared to rely on him to take charge of quality and manner of presentation of a drug, provided he shows the correct degree of initiative. He will not, however, become expert in his own field if he waits for ideas to be evolved by the user or engages in investigations of a purely chemical or biological nature. Discussions with the clinician on the mode of action of a drug and its method of administration frequently reveal that it might be employed far more effectively if available in the correct form,

and the pharmacist's training should enable him to evolve ideas on this subject. Assuming that the pharmacist is conversant with the needs of the clinician, experimental work falls conventionally into two main divisions: formulating and testing. "Formulating" or "compounding" embraces stages of manipulation from the starting material (whether chemical or natural product) to the final packed product. "Testing" covers pharmaceutical analysis (quality, stability, potency, etc.) both of the original drug and of the formulated article.

Formulation

The basis for research on formulating a thorough knowledge of the chemical, physical and biological properties of the drug and possible excipients. First principles must be established or it may become necessary to interrupt a programme of work and return to the starting point. A fruitful study is that of the physical nature of the active agent, as this may have a considerable influence on ease of manipulation and therapeutic efficiency. Such properties as compressibility, free flow, sterilisation behaviour, and dispersibility in liquids, depend largely on crystal structure and particle size and it is frequently necessary to evaluate a series of samples isolated by various processes before the optimum is reached. Sulphanilamide provides an example. Experiments showed that sulphanilamide in equilibrium with water below 37° C. exists as a monohydrate, whereas above this temperature the stable form is anhydrous. In the course of work to examine the suitability of various samples of sulphanilamide for pharmaceutical processing, it was found that, although the material was of the same chemical purity and had been ground in the same way, some samples would undergo little change during sterilisation while others showed a tendency to cake together unless special precautions were taken. Samples satisfactory for sterilisation were not suitable for tablet making, and *vice versa*. This difference was eventually explained by a study of crystal structure. Material which sterilised satisfactorily consisted chiefly of anhydrous sulphanilamide isolated as such and composed of hard crystal

which did not fracture. The material of this type proved to result from degradation of sulphanilamide originally isolated as monohydrate.

The same factors are also important in the mode of action of a drug is considered. Dowling and collaborators, examining the effect of modifying the particle size of both crystalline and amorphous penicillin in oily injections containing 300,000 units/ml; the injections were also varied to give different final viscosities. It was found that, other factors being equal, crystalline material was superior to amorphous, viscous preparations to mobile and large particles to small. The results suggest that the injection of solids in suspension, by both intramuscular and intravenous routes, is capable of considerable development.

Excipients

As a pharmacist is to be master of all the modes of compounding drugs it is essential that he should be provided with adequate materials and equipment. He should, for example, be able to select from his laboratory shelves a range of chemically standardised and biologically tested excipients for emulsions, each known to have a special emulsifying property. He should be available for injections a range of solvents and sterilisation techniques; for insoluble powders, wetting and dispersing agents; for pessaries and suppositories, a range of low-melting-point solids, etc. In practice he has to rely mainly on traditional excipients of natural origin (gums, waxes, etc.) many of which are of variable composition, stability and activity. In other technical processes where operations resembling those of pharmacy are carried out, natural products have been largely abandoned, research having resulted in the development of more efficient and frequently more economical synthetic auxiliaries; many of these or their homologues might well be adapted to pharmacy. The foundations of the work have already been laid; a study is required to decide where they may best be used, and the standards of quality to which they must conform.

Research aimed at the presentation of drugs in new and more efficient forms will be seriously handicapped until work is carried out to increase the pharmacist's armamentarium. Compounds can be prepared possessing solubilising, dispersing, emulsifying, and spreading effects hitherto

unattainable in pharmacy. What has been said of excipients can also be said of apparatus. A survey of equipment used in other industries for operations such as grinding and drying would be a useful starting-point for pharmaceutical research work.

What is the scope of research, given suitable material and equipment? In tablet making there is room for improvement in binding, lubricating, and disintegrating many drugs and in the preparation of special coatings. Preparations for injection might be presented in improved "slow-release" forms by the introduction of alternative solvents or dispersing media. There is a field in the study of preparations for external use in the treatment of parasitic or fungal infections where drugs are often ineffective unless given the correct degree of penetration. A study of the needs of the veterinarian in dosing individual animals and of the farmer in treating a herd prophylactically should provide many opportunities for additional researches.

Since the inclusion of synthetic emulsifying compounds in the 1939 research list of the British Pharmaceutical Conference, much useful work has been done on ointment bases and creams. There is, however, still a tendency to work on "cookery book" or empirical lines, and many of the published recipes have obviously been devised without a proper grasp of the theory underlying emulsification. In 1940, Schulman and Cockbain, who studied the effect of intermolecular complexes on the formation and stability of emulsions of liquid paraffin and water, showed that strong complexes are formed at the oil/water interface when an oil-soluble hydroxy compound, such as cholesterol, is used in conjunction with a water-soluble long-chain compound such as sodium cetyl sulphate. The complexes lower interfacial tension and produce an electrical charge on the surface of the oil droplets. Non-polar steric factors may hinder complex formation, and oleates are thus less effective than straight-chain acids. If the polar hydroxy groups were esterified the emulsifying power would largely disappear. A calculated amount of cholesterol to give a monolayer of complex over droplets of 4 microns diameter was found in practice to agree closely with the optimum required for a stable emulsion. Work of this type, which aims at extending knowledge of the essential principles of emulsion and cream formation, is well within the scope of the pharmaceutical research worker, and would be far more valuable than the empirical approach.

Pharmaceutical Analysis

In the overall quality of a pharmaceutical product there are two main factors to be considered:—

(a) the chemical purity or biological potency of the materials present, particularly of the active agent, and

(b) the pharmaceutical quality of the formulation itself.

Sulphanilamide ointment, for example, may be prepared from a high grade of sulphanilamide and pure excipients but be inferior in that it becomes extremely gritty from hydration and alternate dissolving and crystallisation caused by temperature changes. Survey of tests designed to control (b) reveals numerous gaps. Only recently, for example, have tests been introduced to control tablet disintegration, and there is still no test for tablet hardness. Tablets may have to withstand vigorous transport conditions. This problem has been studied in the pharmaceutical research laboratories of Imperial Chemical Industries, Ltd., and several interesting observations made. The traditional "snap" test, for example, is not a perfect criterion of carrying power. A tablet may break almost silently and yet carry far better than one which possesses plenty of "snap." Equally, some shaking tests, although apparently of great violence, do not induce the tablets to break as they would break in the normal course of transport. The most successful method found so far is a standard mechanical shaking by which the hardness is expressed in terms of the amount of powder produced and the proportion of broken tablets.

Criteria for Emulsions

What, furthermore, are the criteria of good emulsions? Certainly not freedom from "creaming," since in many emulsions instability is not manifest by creaming but takes the form of a gradual increase of globule size over a period of several months. Some control can be exercised by centrifuge tests, but this is not completely satisfactory. Similarly, in reports on creams, one encounters terms such as "firm," "smooth," "rather soft," etc., all of which have a strong personal factor, but which have to be employed for want of a standard test. There is a lack of techniques for controlling the quality of formulations. Some analytical methods have a bearing on both drug and formulation, e.g., the testing of antiseptics *in vitro*. The limitations of the Rideal-Walker and similar tests have been realised for a long time,

and recent work in America has drawn attention to yet another drawback in type of test: the errors introduced when is applied to surface-active agents, particularly quaternary ammonium salts. There is evidence to show that, in a simple dilution test, there is primary adsorption of quaternary salts on the walls of the culture tube, followed by a secondary adsorption of bacteria, accompanied by a "clumping" effect, which makes subculturing by plating look inaccurate, and the bactericidal appears to be effective at great dilutions. This factor has to be taken into account when testing antiseptics formulated with surface-active agents.

Storage Tests

To the pharmacist engaged solely in dispensing, the storage life of the medicine prepared is not vital, since it is unusual to give the user more than a few weeks' supply. The manufacturer, on the other hand, must frequently satisfy himself that his product is stable over a period of several years in the tropics. It is clearly impracticable to send numerous samples overseas for long storage tests, and techniques must be devised to give the same similar results by "accelerated storage." If manufacturers' claims are to be put on a rational basis there should be some degree of standardisation for storage tests, particularly where products such as those controlled by the Therapeutic Substances Regulations are concerned.

A warning is necessary to those who wish to engage in this branch of research but have not had experience in industrial laboratories. A new analytical method is frowned on unless it is reasonably simple, rapid, economical, and free from personal errors. A method may be novel and interesting but, unless it yields consistently accurate results in the hands of a laboratory assistant, it will not come into general use in routine control.

What steps can be taken to stimulate further interest in pharmaceutical research and to ensure that medicine as a whole benefits from the results? Two things of direct interest to the research worker come to mind: (1) Correct choice of subject, and (2) facilities for trying out new discoveries. Great care should be taken in selecting a problem so that the best use may be made of the facilities available. Universities are best equipped to carry out work on basic principles. The hospital pharmacist is in more direct contact with prescriber and patient, and in a better position to

the finer points of presentation. He is concerned also with the problem of devising special apparatus that can easily be disassembled and cleaned, and hence used for a variety of processes. Research by pharmaceutical manufacturers probably covers the widest field since a manufacturer may at one stage encounter a problem that requires work of a rather academic type (i.e., of first principles), whereas at a later stage of the same programme he may be involved in direct discussions with doctors, veterinarians, surgeons, or hospital pharmacists on the manner of its final use. Of all pharmaceutical research workers the industrial chemist is probably best equipped to deal with quality control, stability, and similar subjects, since he is familiar with the limitations of manufacturing processes and the variations which occur from batch to batch on the large scale.

Coordinating Researches

The only "official" guidance in the coordination of pharmaceutical research work has been the publication by the British Pharmaceutical Conference of a research programme containing some thirty or forty problems deemed worthy of investigation. Even this was discontinued in 1939 and replaced by advice on application to the Conference. The system does not provide positive stimulus to pharmaceutical research, with the result that many potential research pharmacists migrate into chemistry or biology. Another unsatisfactory feature is that no facilities exist for medical/pharmaceutical collaboration in the development of an important discovery, such as that of penicillin. In that instance, not only was it at first doubtful whether pharmacists were to handle the drug at all, but even when formulations and assay processes

developed they did so in an erratic manner. What is needed is a Pharmaceutical Research Council which could fulfil the dual purpose of guiding pharmaceutical research and collaborating with the Medical Research Council on matters involving presentation or quality control of drugs. Another function of such a council might be the organisation of pharmaceutical trials, by which ideas evolved in university laboratories or hospital dispensaries might be tested out by a variety of users.

In conclusion, there is no doubt that an extensive field awaits exploration by those who have a clear appreciation of its boundaries. If a problem in this field is to be developed successfully, care must be taken in its selection and in the application of scientific principles to it. Finally, a powerful stimulus to such work would result from the creation of a central guiding authority. To my mind, the present time is particularly opportune for placing pharmaceutical research on a firm foundation. A high standard of research would do much to assist in raising professional status.

Streptomycin Appeals.—Between November 19, 1946, and April 17, 1947, the B.B.C. broadcast twenty-one appeals [for streptomycin] at the instance of hospital authorities. Twenty-one hospitals were asked for the result of the appeal. Of the eighteen who replied, fifteen stated that no streptomycin had been received as a result of the appeals. One hospital received 150,000 units, one received 3 gm., and one received 5 gm. When it is recalled that each of the patients studied by Farrington and his colleagues received 3-gm. doses of streptomycin daily for approximately 120 days further comment seems hardly necessary.—"The British Medical Journal."

EXAMINATION RESULTS

The following satisfied the examiners in the Chemist and Druggist Qualifying examination held in England and Wales in January:—
 Allen, D. R., Oxford
 Baker, Bernadine M., Grantham
 Ball, Pauline, Bradford
 Banks, J., Preston
 Chapman, J., Worcester
 Clark, G. F., Coventry
 Cole, M. G. N., Worcester
 Colley, J. A. B., Bishops Cleeve
 Davies, M. T., Newport
 Dennis, Mary J., Launceston
 Edsley, G. G., La Rocque

Dunn, Margaret, Kensington
 Evans, I., Crosshands
 Farthing, F. W. E., Mexborough
 Gaiger, R. D., Southampton
 Green, B. H., Coventry
 Hadfield, Dorothy, Glossop
 Hartwell, A. T., Lavender Hill
 Hunter, Mary, Hove
 Huxford, R. A. D., Lyme Regis
 Jenkins, D. M., Lampeter
 Jordan, D. K., Grays
 Kroll, N., Cheltenham
 Lank, Joyce M., Guildford
 Loud, Florence J., Cosham
 Lowe, S. H. E., Oxford
 McGlone, C., Glasgow
 Matthews, Muriel, Bath

Moncad, K. H., Paignton
 Morris, H., Bridgend
 Neale, A. R., Coventry
 Norris, F. L., Ramsgate
 Orton, Olive, Newport
 Rath, Erica Z., Cambridge
 Robertson, Patricia J., Portsmouth
 Ruff, J. F., Alfreton
 Ruff, W. F., Bognor
 Scorch, S. B., Salford
 Sharples, S., Preston
 Stearne, T. W., Rusholme
 Swan, H. J., Luton
 Unsworth, Mary T., Golborne
 Williams, H. G., Swansea

PHARMACEUTICAL SOCIETY OF IRELAND

THE January monthly meeting of the Council of the Pharmaceutical Society of Ireland was held on January 13, Mr. P. A. Brady (president) in the chair. Also present were Messrs. T. C. Scott, J. Gleeson, G. C. O'Neill, F. X. Meagher, J. A. O'Rourke, P. C. Cahill, C. J. Cremen, J. K. Whelehan, H. P. Corrigan, P. F. McGrath, M. Costello, J. P. Kissane, M. Power, T. B. O'Sullivan, and P. Brooke-Kelly.

MR. MEAGHER asked what had transpired at a conference on the Industrial Efficiency and Prices Control Bill to which the Society had been invited. THE PRESIDENT explained that the invitation should have gone to the Irish Drug Association, to which organisation he had accordingly referred it. MR. MEAGHER said the Bill was of great importance since it proposed to abolish, or interfere with, any associations that would restrict business to members; the Bill also proposed to give civil servants authority to help in directing industries. One of the first actions of a civil servant would be to reduce retailers' profits. THE PRESIDENT suggested the matter might go on the agenda for the I.D.A. annual meeting. MR. COSTELLO said the I.D.A. secretary (Mr. B. R. Smith) had attended the conference at which a resolution had been passed asking to have the Bill withdrawn.

The Council unanimously agreed to the nomination of the president, vice-president (Mr. T. C. Scott), treasurer (Mr. J. Gleeson), and Messrs. P. C. Cahill and F. Loughman to the Senate Nominating Committee for the Cultural and Educational Panel.

THE REGISTRAR (Mr. James G. Coleman) reported that forty-four candidates had entered for the forthcoming Licence examination and thirty-nine for the Assistants' examination. One candidate had taken the Registered Druggist examination and a pass had been recommended by the examiner. Greetings had been received from His Excellency the Nuncio Apostolic, the Archbishop of Dublin, the Minister for Local Government, the presidents of the Pharmaceutical Societies of Great Britain, Northern Ireland, and Victoria, the registrar of the Pharmaceutical Council of Western Australia, the Commissioner of the Civic Guards, and the Representative Council of Pharmaceutical Students. Preliminary registrations were notified on behalf of fifteen candidates. The reports of the House, Law, Schools, Certificates and

Declarations Committees were submitted and approved. THE REGISTRAR reported on the deaths of Messrs. Armar J. Donnell, M.P.S.I., Austin O'Malley, M.P.S.I., and William Jones, L.P.S.I.

Changes in Register

The licence certificate of James J. Cassidy was signed and sealed. The following were elected to membership of the Society: The Misses I. C. Connolly, M. Forde and B. Murphy, Mrs. M. V. McDonnell (né Dodd), and Messrs. Michael C. Flynn, M. P. McCooley, R. P. McMahon, and I. N. Moloney. The following were nominated for membership: Messrs. A. J. Boyle, Dublin, Edward J. Fallon, Dublin, and J. J. E. O'Brien, Bray, co. Wicklow, Miss Winifred Rhatigan, Clontarf, and Mrs. Margaret Ward (née Duffy), Monkstown, co. Dublin.

The following changes of address were notified: Mr. Robert P. McMahon, M.P.S.I., to 69 Ranelagh, Dublin; Mr. M. D. McDonagh, M.P.S.I., to 82 South Main Street, Wexford; Mr. Edward J. Fallon, L.P.S.I., to 48 Ballybough, Dublin; Mr. Desmond F. Cannon, L.P.S.I., to c/o Smart & Co., Livingstone Avenue, Gwelo, Southern Rhodesia; Mrs. Margaret Ward to 93 Monkstown Road, co. Dublin.

The Society's Premises

MR. P. C. CAHILL moved that the Department of Finance be asked to provide financial facilities for building or purchasing new premises and a college of pharmacy for the Society, and that the Minister be asked to receive a deputation to discuss the matter. Mr. Cahill said the present premises had been in use by the Society since 1891, and were hardly fit to meet conditions today. For a number of years the College had been unable to accommodate all the students seeking admission and there had been complaints about students having to wait one or two years to be admitted to a class. In addition the Society must anticipate educational reforms and the introduction of new courses for which there was no accommodation at present. There was no large room suitable for meetings and lectures, and the office space at present available left much to be desired. The motion was tantamount to asking the Government for financial assistance; neither the State nor the taxpayer had made any contribution towards the education of the pharma-

chemical chemists of the country since the Society came into being. In fact the Society was one of the few professional bodies which accepted full responsibility for its schools. The cost of pharmaceutical education in Great Britain and in Northern Ireland was not entirely a matter for the Pharmaceutical Societies in those countries. His motion asked for a capital, and an annual, grant to enable the Society to buy or construct a suitable college; the estimated cost would be between £20,000 and £25,000, not a big sum from the Treasurer's point of view.

MR. McGRATH, seconding, said an educational body which provided a complete public service was entitled to some consideration from the Government. The Minister for Finance might agree to give a grant on certain terms, which it was open to the Society to accept or reject. Nearly everyone agreed that the present premises were unsuitable for present needs. Members attending a recent post-graduate course complained that the accommodation was too small. MR. MEAGHER said he had no misgivings about getting a Government grant as it might involve considerable danger to the independence of the Council. If money could be found for an observatory in South Africa and a school of cosmic physics, he could not see why money could not be found for the Pharmaceutical Society. MR. BROOKE-KELLY said sending a deputation to the Minister would not commit the Council. The motion was passed unanimously.

Health Service Proposals

MR. O'ROURKE proposed a motion expressing alarm at parts of a White Paper titled "Outline of Proposals for the Improvement of the Health Services." If the proposals became law, continued the motion, they would have results injurious to pharmacy and to the industrial and commercial organisations associated with

The motion proposed (a) that a special subcommittee of the Council consisting of members living in the Dublin area should immediately set up with power to co-opt; (b) that a summary of the Government's proposals should be prepared and sent to pharmaceutical organisations; and (c) that the Council should submit to the Government a memorandum setting forth *in extenso* its objections to the proposals. MR. O'Rourke said all members were agreed the health services required considerable organisation and improvement, and that both the Health Act and the White Paper

contained many excellent proposals for much needed reforms. His objection was that such drastic proposals had been printed without prior consultation with, amongst others, pharmaceutical interests. Many of the proposals in the White Paper were derived from the controversial Health Act, 1947.

Systems in Other Countries

The Council found itself obliged to take particular note of everything that affected or was likely to impinge on the duties and rights of pharmaceutical chemists, druggists, assistants and apprentices. Systems organised in other countries, for example Australia, New Zealand, Canada, part of the programme in Great Britain, and the service being planned in Northern Ireland, all aimed at providing a more satisfactory service for the public, without serious injustice or injury to the rights of those who co-operated in the health services. The White Paper proposed a free maternity service for all women, with no income limit, and free treatment for the illnesses and defects of all children up to the age of sixteen. One phrase in the White Paper said "Legal and administrative integration of all the services and further widening of their scope is the long term aim"; another section read "Local health clinics . . . will in most cases replace existing dispensary buildings. . . . New or improved clinics are intended to provide accommodation for general medical examination, hygiene instruction, records, pharmacy, waiting rooms and, in the larger clinics, x-ray sets." If some of the proposals were made law, declared MR. O'Rourke, they would disrupt and partially destroy the present system based on private enterprise; they would not provide a satisfactory alternative, but would seriously affect the prospects of chemists' assistants and apprentices. Perhaps the most serious part of the proposals was that under which pharmaceutical services were to be progressively developed in health clinics and health centres, a process which must in the long run lead to State control of pharmacy in all its branches. A logical development was the establishment of a medical and pharmaceutical supplies Department of State. To imperil seriously the means of livelihood of some thousands of men and women, employers and employees, without a proportionate advantage to the community as a whole was contrary to justice. MR. O'Rourke believed that part of the

programme in the White Paper was out of harmony with the spirit of the Constitution in that it ignored or rejected the Directive Principles of Article 45.

MR. MEAGHER, seconding, deplored the tendency towards paternalistic legislation of which the White Paper was a particularly bad example. The first principle of any Health Act should be to safeguard the dignity and privacy of the patient; to herd people in public dispensaries could not be said to do that. The scheme now outlined was an enlargement of the present dispensary system available with certain additions on a token payment to those with incomes between £250 and £500 per annum. The scheme would make inroads on chemists' turnover. The clinics referred to in the White Paper would be the old dispensaries dignified by a grandiloquent name. The free maternity service and the service for children would affect the sale of baby foods, cod-liver oil, etc. It would appear that pharmaceutical chemists, as taxpayers, would have to pay dearly for the rope to hang themselves.

MR. COSTELLO said the proposals were no great advance on the present system with one exception the word pharmacist or chemist was not mentioned in the White Paper. Those responsible for it might have in mind that the existing pharmacies would be called on to supply the medicines. From the taxpayers' view it would be more economical to have medicines supplied from established pharmacies instead of through clinics. MR. CREMEN said that the White Paper did not give enough vital information on pharmaceutical matters. It would be impossible for the Minister to ignore the whole pharmaceutical profession in the country.

MR. O'ROURKE suggested that a summary of the provisions of the White Paper should be circulated to all members, to the trade associations and to the students' organisation. The motion was passed unanimously and it was agreed that the subcommittee would have power to call in members of outside pharmaceutical organisations for consultation if necessary.

COLONIAL HEALTH DEVELOPMENTS IN 1947

IN the health services of the Colonies, emphasis during 1947 continued to be laid on preventive measures. Among outstanding progress reported was a fall in the native death rate in Kenya to seventy-one per 1,000 in 1946 (against 217 per 1,000 in 1939). Against malaria in a number of Colonies, Paludrine was the drug recommended, but many results will not be available until field trials, still in progress, are completed. Transmission of malaria in North Borneo is being studied by a research team engaged in a scheme extending over a period of three years; on the results obtained, it is expected that malaria control in the area can be put on a sound basis. Evidence of the value of DDT in reducing the incidence of the disease in British Guiana is also reported. In one village of 3,000 inhabitants, DDT was used in July 1945 for destroying tsetse fly and the treatment was repeated twice later. Before the use of DDT 60 per cent. of school-children in the Colony showed signs of chronic malaria, but a recent survey showed that the proportion had been reduced to 18 per cent. The health authorities of the Colony have planned to bring DDT protection to over 80 per cent. of the population exposed to endemic malaria. In Malaya the DDT has been successfully used to

check an increase in the incidence of malaria resulting from Japanese neglect to carry out control measures during the occupation. The use of DDT insecticide in controlling the incidence of malaria and yellow fever in Colonial territories generally is being investigated by a Colonial Insecticides Committee, set up during 1947. Medical researches are continuing in Britain and the Colonies on tuberculosis, leprosy, scrub typhus, the physiology of the hot climates, and viruses.

In the economic development of the colonies during 1947 the inauguration of the East African Groundnut Scheme (see C. & D. January 10, p. 49) is an outstanding event. The Gambian Government was recommended by an investigating mission to consider proposals for mechanised production of groundnuts within its territory. Similar investigations are being made in the Gold Coast and Northern Nigeria. In London in December 1947 Portuguese and Colonial Office representatives met to discuss methods of co-operation to combat the tsetse fly, trypanosomiasis and rinderpest in British and Portuguese colonial territories in Africa. A conference in Barbados during the year resulted in the second British Caribbean oils and fats agreement.

CORRESPONDENCE

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor.

Notification of Price Changes

SIR,—May I, through the medium of your columns, address a request to leading manufacturers of proprietary medicines and chemists to place the name of my Association on their mailing list for price alterations, if they have not already done so. The Ulster Chemists' Association issues a comprehensive price list to each of its members, to represent approximately 97 per cent. of the chemists in Northern Ireland. In these days of ever-changing prices, keeping the list up to date by sending out regular notices of price alterations presents considerable difficulty. Co-operation and help from manufacturers, would, therefore, be greatly appreciated by my Association.

Yours faithfully,

A. E. STRACHAN, *Secretary*,
Belfast. Ulster Chemists' Association.

Pharmacy in Canada

SIR,—I have travelled all over Canada except in the Maritime provinces and have never yet seen crucifixes or models of the Virgin Mary offered for sale in a pharmacy, as suggested in your paragraphs under "Notes on Intending Emigrants" (*C. & D.*, 1947, p. 729). It is true that such may be offered in the ultra-religious districts of Quebec, but why pick out that feature in a country as big as the Dominion of Canada? Your letter apparently used bifocals, because he did not see the great many fine pharmacies which do not do anything but compound prescriptions. Such shops can be found in every city in Canada. He did not see the great number of pharmacies which have no soda fountains, and which do not sell cheap novels and "funnies." He let a few isolated cases overshadow the many good representative shops.—Yours faithfully,

R. O. HURST, *Dean of Faculty*,
Ontario College of Pharmacy.
Toronto, 2.

[It was certainly not our intention to give the false impression of Canadian pharmacy; on the contrary we have on numerous occasions reproduced photographs of Canadian pharmacies which show that many of them are in the forefront as examples of "ethical" or "professional" tendencies in the craft. The reference to religious articles was prefaced by the words "in certain districts," and in an editorial review of the whole series of articles on emigration (see

C. & D., January 10, p. 53) we said "In the United States, as in Canada, pharmacists are becoming increasingly aware of the need for sound training . . . the establishment of an increasing number of 'prescription' pharmacies, without soda fountains, is another welcome development." An illustration of a modern Canadian pharmacy, typical of this advance, is given on p. 111. —EDITOR.]

Illegible Prescriptions

SIR,—The reproduction, in Mr. A. B. Gilmour's entertaining and informative article (see *C. & D.*, December 27, 1947, p. 778), of a particularly bad example of illegibility, prompts me to suggest that you should refrain from stimulating competition in "the art of reading bad writing." The Pharmaceutical Society might also act wisely in dropping this absurd item from examinations. It may well be that we pharmacists have ourselves to blame for the inconvenience (to say the least of it) caused by handwriting which would not be tolerated from any schoolchild, and that a disservice was done by an Editorial article about eighty years ago in the Society's journal when it stated ". . . while it is the duty of the physician to write legibly, it is equally the duty of the dispenser to become expert in the power of reading bad writing." The modern medical student is being trained to write a new "style" of prescription, as being less liable to misinterpretation. Roman numerals are replaced by figures, "aqua" by "water," and so on. The result is usually neither one thing nor another. (What was referred to as "dog Latin" may have changed its sex!). I read an article some time ago by a lady doctor who deplored the use of the accepted symbols as being likely to lead to confusion through mistaking the drachm sign for the ounce; the lady evidently did not know that the chemist would have to accept the responsibility. I wonder how she would view the possibility of a misplaced dot in a decimal system of prescribing. "Mr. Dooley" once said: "It's a funny thing ye can niver read a doctor's prescription, but ye can always read his account." I would say that it shows lamentable inconsistency that a man who can handle a scalpel with such meticulous care should be incapable of using a pen.

Yours faithfully, R. E. BELL.

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

28 Essex St., W.C.2, January 21

LITTLE, if any, improvement in business can be recorded this week in most sections of the London markets. Manufacturers of PHARMACEUTICAL CHEMICALS report a less brisk export demand and a falling-off in the home trade. The lull in activity is not, however, regarded as of great significance; a quiet period is usual at the opening of the year. Supplies of most products are improving steadily. Prices are without material alteration on the week. LACTATES have shown a small advance. The CALCIUM and CALCIUM SODIUM SALTS have been increased by one penny, and LACTIC ACID by three halfpence per lb. The general tone of the chemical markets continues firm.

Crude Drugs

There have been few changes in CRUDE DRUGS. Further arrivals of AGAR are noted; some of the material is up to the standard of fair Kobé No. 1 strip but many samples are very inferior. Quotations are 19s. per lb. for spot and 17s. 6d., c.i.f. for January-February shipment. There has been no call for spot Cape ALOES and the price is unchanged; firmer conditions are reported at origin and shipment is dearer. Parcels of ASAFETIDA now being offered show a great variation in quality and prices range from £18 to £28 per cwt. A good inquiry for BELLADONNA ROOT is reported, a parcel to come forward is offering at 5s. 9d. per lb. and further arrivals are expected in the near future. Business has been done in CARDAMOMS, Aleppy seeds, at 8s., but some holders are asking more than this price. CASCARA SAGRADA has been quiet with only small price fluctuations; American sources state that 1947 crop will be small. COLOCYNTH is dull and easy. Supplies of Anatolian LIQUORICE root have been cleared and early replacements of stock are not likely in view of the Turkish export policy. Syrian and Russian root on spot is offering at 50s. to 55s. per lb. LIQUORICE JUICE, block material, Italian and Syrian, is available at from 320s. per cwt.; American is now quoted at 240s. to 250s. SENEGA attracts little interest and spot has eased slightly. New-crop Alexandrian SENNAS are coming forward steadily; samples show that grading is not as thorough as it was a few years ago. TURMERIC continues firm. Business in WAXES has been small; supplies of BEESWAX do not improve and spot values remain on a high level.

Essential Oils

The firmer market for CITRONELLA and LEMONGRASS oil persists and spot will probably be dearer as new arrivals come

forward. Prices of Bourbon GERANIUM have been advanced and French LAVENDER is also inclined to be firm. BAY OIL, however, is offering at slightly lower price. PALMAROSA is difficult to find at 32s. 6d. 35s. per lb.

SYNTHETICS and ISOLATES are relatively steady and demand continues brisk with supplies fairly plentiful.

U.S. Drug and Chemical Report

New York, January 21

EXPORT licences have been granted for GLYCERIN and sales are said to have been effected by dealers at 45 to 46 cents per lb., inclusive of drums. The easier tone in MENTHOL reported a week ago still continues; demand is limited at the present time and buyers are cautious under the influence of the arrival of 150 cases of Japanese produce and report that two more consignments are on the way. High prices for COAL TAR CHEMICALS such as BENZOL, TOLUOL and XYLOL are likely to result in advances for several organic chemicals. All producers of PHENACETIN have now increased their schedules 10 cent per lb., resulting in the establishment of a basic price of \$1.10 per lb.

No signs of the anticipated stronger tone in the CRUDE DRUGS markets have yet become evident. However, French HERB were advanced sharply, marjoram by 1 cent per lb. and thyme by 16 cents. COPAIBA, TOLU and PERU BALSAMS were also firmer, while Mexican SARSAPARILLA root is expected to decline in the weeks ahead. The arrival of CUBEB BERRIES from Singapore has resulted in a 25 cent reduction in quotations on the U.S. market.

Activity on the ESSENTIAL OILS market has been very limited although a stronger tone in AROMATICS has followed increased costs of such basic materials as xylol, benzol and phenol. The arrival of more Italian LEMON OIL brought about a reduction of the price here from \$3.25 to \$3.00 per lb. during the week.

Pharmaceutical Chemicals

ACETANILIDE.—Makers' quotations for 1-cwt. lots in kegs are 2s. 6d. per lb. for crystals and 2s. 7d. per lb. for powder.

ADRENALINE.—B.P. is offered at prices from 5s. 6d. to 6s. per gm. for natural and from 2s. to 2s. 6d. for synthetic; racemic is quoted at 2s. per gm.

ATROPINE.—Home trade prices per oz. are as follows: ALKALOID, 42s. 6d.; 4 oz., 42s.; 25 oz., 41s. 6d. SULPHATE, 34s. 4 oz., 33s. 6d.; 25 oz., 33s. METHYL BROMIDE and METHYLNITRATE, 75s.

ISMUTH SALTS.—Makers' prices per lb. 1-cwt. lots are as follows: CARBONATE, 10d.; CITRATE, 12s. 6d.; SUBNITRATE, 9d.; SALICYLATE, 12s. 9d.; SUBGALLATE, 9d.

ORAX.—Makers' prices are: B.P. quality, granulated £38 per ton; crystal, powder, £39 10s. Commercial grades, per ton less. Packed in 1-cwt. bags, covered carriage paid in Great Britain in lots and upwards. Terms quoted do apply to Northern Ireland.

REOSOTE.—B.P. quality, ex beechwood, packed at from 7s. 6d. per lb. upwards.

IODINE PREPARATIONS.—Current prices per lb., for the home trade, are as follows: ASSIUM IODIDE, B.P.—1 cwt., 10s. 8d.; IODIUM IODIDE, B.P.—28 lb., 11s. 8d.; IODIFORM, B.P.—28 lb., powder, 15s. 1d.; IODINE, 17s. 1d. RESUBLIMED IODINE, B.P.—1 cwt., 12s. 5d. Orders of 28 lb. and upwards may be comprised of assorted preparations at schedule rates. Packages are available. Contracts may be booked for 1 cwt. or over of assorted preparations for delivery as required within three months and subject to rise and fall clauses. Special rebate 1d. per lb. allowed on quantities of 5 cwt. in one delivery, or on contract for delivery within three months.

LACTATES.—Makers advise higher prices. Current quotations are as follows: CALCIUM, 2s. 4d. to 2s. 10½d.; CALCIUM LACTATE, 3s. 4d. to 3s. 11d.; ACID, 3s. 1½d. to 3s. 10d. per lb.

MERCURY SALTS.—Makers' prices are as follows: AMMONIUM CHLORIDE, B.P., powder, 9s. 5d.; lump, 9s. 3d. BICHLORIDE, B.P., powder, 8s. 1d.; lump or granular, 8d. MERCURIUS CHLORIDE, B.P., 9s. 4d. MERCURIUS OXIDE, B.P.C., 10. YELLOW OXIDE, B.P., 10s. 7-lb. lots are 6d. per lb. less than above prices.

PHENAZONE.—In short supply. Quotations are at from 32s. 6d. to 35s. per lb., as quantity.

PHENOL.—Maximum price for crystals in home market is 11d. per lb., in 1-ton lots, packed in drums (returnable), delivered.

PHENOLPHTHALEIN.—Manufacturers' prices per lb. are as follows: 1-cwt. lots, 19d.; 28-lb., 6s. 3d.; 14-lb., 6s. 6d.; 7-lb., 9d.

PHOSPHATES.—Makers' rates per lb. for export are as follows: B.P. granular, 7½d., 28 lb., 9d.; feathery, 1 cwt., 11s. 28 lb., 10d.; exsiccated, B.P.C., 1 cwt., 12s. 2d., 28 lb., 2s. 6d.; ACID, B.P., crystals, 1s. 9d., 28 lb., 2s. POTASSIUM PHOSPHATE, 4s.; powder, 4s. 3d. per lb.

PILOCARPINE.—Makers' rates per oz. are as follows: ALKALOID.—1 oz., 37s.; 4 oz., 8s. 6d.; 25 oz., 36s. HYDROCHLORIDE.—1 oz., 32s. 6d.; 4 oz., 32s.; 25 oz., 31s. 6d. CITRATE.—1 oz., 30s. 3d.; 4 oz., 29s. 9d.; 25 oz., 29s. 3d.

Crude Drugs

AGAR.—Material of fair Kobé 1 quality is offering at 19s. per lb., spot.

ALOES.—Cape is offered at 160s. to 165s., spot; market is firmer at origin and shipment offers are now at 140s., c.i.f. Curaçao in boxes is available from 235s. to 245s., spot; forward, 215s. to 220s., c.i.f.; Socotrine, spot, 156s. to 190s. per cwt.

ANISE (STAR).—Spot quoted from 120s. to 130s. per cwt.; shipment, 110s., c.i.f.

ANNATTO SEED.—Jamaica is offered at 11d. per lb., c.i.f.

ARECA NUTS.—Ceylon on the spot is offered at 67s. 6d. per lb.

ARNICA FLOWERS.—Spot quotations are at 3s. per lb.; a dull market.

ASAFETIDA.—Parcels are available on the spot at from £18 to £28 per cwt., according to quality.

BALSAMS.—Canada is firmly held at 17s. 6d. to 18s. per lb., spot. Pará *Copaiba*, spot, 8s. per lb. for soluble, which is difficult to find, and 7s. 3d. for insoluble. Peru, San Salvador, is offered at 6s. 3d. per lb., duty paid. Tolu on spot, 19s. to 19s. 6d. per lb., quoted.

BAY LEAVES.—Leaves without stems 95s. to 105s. per cwt., duty paid, quoted.

BELLADONNA.—Herb, B.P. is offered at 5s. 6d. per lb., spot; root, minimum B.P., to come forward is quoted at 5s. 9d. per lb., and a good inquiry is reported.

BENZOIN.—More interest has been shown. Quotations are from £15 to £18 per cwt., according to quality.

CALUMBA.—Natural unwashed root is offered at 80s. per cwt., spot.

CAMPHOR.—Very little demand and prices have shown only small fluctuations. Chinese tablets (¼-oz.) are quoted at 11s. 3d. to 11s. 6d. per lb., spot; refined powder (B.P.), 10s. 3d. to 10s. 6d., Formosa (B.B.), 9s. 6d. to 10s.; 2½-lb. slabs, afloat, quoted at 10s. 6d. per lb., landed, duty paid. Chinese crude 93-95 per cent., 7s. per lb.

CANTHARIDES.—Chinese, spot, offered at 10s., duty paid; shipment, 6s. 9d., c.i.f.

CARDAMOMS.—Mangalore: Half-bleached A's, 8s. 6d. per lb., spot; B's, 8s., seeds, 6s. 9d. Alleppy seeds, 8s. per lb. quoted for No. 1; Alleppy greens, 6s. 3d., with extra bold at 7s. per lb.

CASCARA SAGRADA.—1947 peel is steady at from 265s. to 275s. per cwt., according to holder; 1946 is at 270s. to 275s.

CINNAMON.—Quillings are offered ex store at 1s. 6d., featherings at 1s. 3d., and chips at 9d. per lb.

COLCHICUM.—Jugo-Slav corms are quoted at 9s. 9d. to 10s. per lb., spot.

COLOCYNTH.—Spot, fine-white is quoted at 1s. 9d.; medium-white at 1s. 5d. per lb.

FRANGULA BARK.—Quills, in fair demand, are quoted at 2s. 3d. per lb., spot.

GENTIAN.—French natural root, spot, is quoted at 90s. to 95s.; cut, 115s. per cwt.

GINGER.—Jamaica No. 1 is quoted at 120s. per cwt., spot; No. 2, 100s. to 102s. 6d.; No. 3, 97s. 6d.; Sierra Leone is available at 67s. 6d.; new-crop, February-April shipment, 64s., c.i.f.

GUAIACUM RESIN.—Quotations for lump are from 2s. 9d. to 3s. per lb., spot.

GUM ACACIA.—Kordofan cleaned sorts, 70s. 6d. per cwt., spot London; shipment, 62s., c.i.f. Bleached No. 1, steady at 140s., ex store. Talha cleaned, 39s. per cwt., ex warehouse; shipment, 35s.

GUM MASTIC.—Quiet. No. 1 is offered at 14s. per lb., duty paid.

HOREHOUND.—Best white French herb is offering at 89s. per cwt.

PECAUANHA.—Nicaraguan on spot, 28s. 6d. to 30s. per lb., according to holder; shipment, 27s., c.i.f. Reports state that this item is firmer at source. Colombian root, 28s., spot; shipment, 25s., c.i.f.

MACE.—West-Indian blade, on the spot, is quoted at 7s. 3d. per lb.; pickings, 4s. 6d. to 5s. 6d., according to quality.

MALE FERN.—A parcel of Jugo-Slav is offering at £95 per ton, c.i.f.

MENTHOL.—Quiet. Brazil, 48s. 6d. to 50s., duty paid; Chinese is difficult to find at 60s. per lb.

MERCURY.—Spot, £16 per flask, ex warehouse; for shipment, £15 8s., c.i.f. U.K.

MYRRH.—Steady. Aden sorts is quoted at £14 to £15 10s. per cwt.; siftings, £8 to £10 per cwt., spot.

NUTMEG.—West Indian 80's are quoted at 3s. 7d. per lb.; sound unassorted, 2s. 9d.; wormy and broken, 1s. 9d. to 1s. 10d. East Indian 80's, 4s., spot, quoted.

NUX VOMICA.—Madras is steady at 40s. to 42s. 6d. per cwt. Mangalore, 40s.; Cochir, 42s. 6d. to 45s., spot, as to seller.

OLIBANUM.—Fair to good drop is quoted from 200s. to 220s. per cwt.; pea size, 220s.; good garblings, 180s.; seeds, 175s.; siftings, 105s.

ORANGE PEEL.—Spanish quarters, 1s. 3d. to 1s. 6d. per lb., spot; sweet ribbon is quoted at 1s. 9d.; bitter ribbon, 1s. 3d. in Liverpool.

ORRIS.—Florentine, spot, 185s. to 195s. per cwt., according to quality. Verona, for shipment, 105s., c.i.f.

PAPAIN.—East African on the spot is quoted at 31s. to 32s. 6d. per lb., according to holder.

PIMENTO.—Spot, 1s. 2½d. per lb.; afloat, 119s. per cwt., c.i.f.

PSYLLIUM SEED.—French black is offered at 2s. 3d. per lb., duty paid.

QUASSIA.—Chips, on the spot, are offered at 40s. per cwt.

QUILLAIA.—Natural bark is quoted at prices from 105s. to 115s. per cwt., spot; cut, for future delivery, 135s. per cwt.

QUINCE SEEDS.—Cape, on the spot, quoted at 5s. 9d. to 6s. per lb.

RHATANY.—Spot is quoted at 9d. per lb.

RHUBARB.—Chinese rough-round on the spot is quoted from 5s. to 6s. 6d. per lb. according to fracture; a No. 3 root is available at 3s. 6d.; French rhapontica, 1s. 9d.

SARSAPARILLA.—Jamaican native red the spot, at 2s. 6d. per lb.; 2s. 3d., c.i.f.

SEEDS.—ANISE.—Slow of sale. Seller of Cyprus at 1s. 9d. per lb., and Turkey at 1s. 8½d. per lb., duty paid, spot London or Liverpool. CARAWAY.—Market quiet Dutch quoted at 11½d. per lb., duty paid, c.i.f. wharf London. CELERY.—Unchanged Indian offered at 1s. 3d. per lb., spot Liverpool.

CORIANDER.—Market remains firm Argentine is quoted at 52s. 6d. per cwt. duty paid, spot London or Liverpool. Morocco, nominal, 55s. per cwt., duty paid spot London; English, 75s. to 80s. per cwt.

CUMIN.—Unchanged. Indian, 212s. 6d. to 215s. per cwt., spot Liverpool or Hull. Cyprus quoted at 220s. per cwt., spot London. DILL.—More inquiry. Indian quoted at 47s. 6d. per cwt., spot London, and 45s. per cwt. in Liverpool.

FENNEL.—Market remains quiet. Indian, spot London, worth 72s. 6d. to 75s. per cwt.; 71s. 6d. per cwt. quoted spot Liverpool.

FENUGREEK.—A little business reported. Indian 47s. 6d. per cwt., spot London, and 45s. per cwt., business done spot Liverpool.

SENEGA.—Attracting little interest; spot offers are from 11s. 9d. to 12s. per lb. shipment, 11s. 9d., c.i.f.

SENNA.—Tinnevely leaves on the spot offered as follows: No. 1, 10d. to 1s. per lb.; No. 2, 8d. to 9d.; No. 3, 7d.; No. 4 5½d. to 6d. Tinnevely pods, handpicked 10d. to 1s. 4d.; manufacturing, 5½d. to 6d. Alexandrian pods, handpicked, spot, from 4s. 9d. to 5s. 9d., according to quality; medium, 2s. 9d.; manufacturing, 1s. 9d. to 2s. per lb. Alexandrian leaves, 1s. 2d. per lb. quoted for f.a.q.

SHELLAC.—Firm. Spot quotations, ex warehouse London, are as follows: F.O.T.N., pure, 335s.; Standard No. 1, 345s.; fine orange, 355s. to 400s. per cwt.

STYRAX.—Nominal, 5s. 6d. per lb., spot.

TAMARINDS.—Barbados is quoted at 52s. 6d. per cwt., duty paid.

WAXES.—Dar-es-Salaam BEES', on spot, offered at 385s. per cwt.; Lindi, 375s. Benguela is quoted at 360s., duty paid; shipment, 305s., c.i.f. CANDELLILA.—Steady at 400s. per cwt., spot, and shipment, 385s., c.i.f.

CARNAUBA.—Fatty grey on spot, 515s. per cwt.; shipment, 480s., c.i.f. Prime yellow, spot, 850s. per cwt.; shipment, 800s., c.i.f. MONTAN.—An easier market. Reibeck is offering at 350s. per cwt.; Czechoslovak crude, 300s.

OURICURI.—6 per cent., on spot, 375s. per cwt. Shipment, 1 per cent., 415s., c.i.f.; 2 per cent., 410s., c.i.f.; 5 per cent., 390s., c.i.f.

Essential and Expressed Oils

ALMOND.—B.P. (sweet) is available from 4. 6d. to 12s. 6d. per lb. Bitter oil is quoted from 30s. to 55s. per lb., according to quality and seller.

ANISE.—Very little business done during the past week. Chinese star in drums offered at 6s. 4½d. to 6s. 7½d. per lb., and thus at 6s. 6d.

BAY.—West Indian is offered at 7s. to 6d. per lb. spot.

CADE.—Steady; quoted from 4s. to 5s. 6d. per lb., according to holder and quantity.

CAMPHOR.—White oil is offered at 3s. to 6d. per lb., duty paid.

CANANGA.—Java oil, spot, is quoted from 8s. to 40s. per lb., 27s. 6d., c.i.f.

CASSIA.—B.P. oil is available at prices from 15s. 6d. to 17s. per lb., according to quantity.

CITRONELLA.—Ceylon on the spot is tender; firmer with quotations from 4s. 9d. up to 6s. 6d. per lb., according to quantity. Only small supplies of Java are coming forward and 15s. per lb. is asked for spot.

GERANIUM.—Bourbon is firm at from 70s. to 75s. per lb., according to quantity and grade.

LAVENDER.—Steady. French is quoted from 35s. to 45s. per lb., according to quantity and grade. Spanish (spike), 9s. 6d. to 11s. 6d. per lb., spot.

LEMONGRASS.—Firm. Spot offers are from 8s. 6d. to 10s. 6d. per lb. as to holder; shipment, 8s. to 8s. 4½d., c.i.f.

LIME.—West Indian is quoted from 3s. 6d. to 30s. per lb., according to holder and quantity.

NUTMEG.—English-distilled oil is offered from 39s. to 45s. per lb.

OLIVE.—The Olive Oil Importers' Association price for edible, 1 per cent., to wholesalers is 51s. per gall. of 9 lb., in drums, ex store. Wholesalers' prices to retailers are as follows: In gall. loan cans, 5s. 9d. per gall.; in ½ gall., 59s. 6d.; in quart loan containers, 60s. 4d.; and in pint tainers, 61s. 4d. per gall., all delivered.

PALMAROSA.—Very little on the spot and 8s. 6d. to 35s. per lb. is asked.

PINE NEEDLE.—Spot is steady at 22s. per lb. for first-grade oil.

Synthetics and Isolates

DEMAND for aromatic chemicals has been brisk. Prices are fairly stable, with a few exceptions, and supplies generally are improving steadily. Prices are per lb. and vary according to grade, quantity and seller.

ACETOPHENONE.—10s. 6d. **AMYL ACETATE.**—2s. 9d. **AMYL BENZOATE.**—5s. 6d. **6s. 6d.** **AMYL BUTYRATE.**—7s. 6d. to 8s. **AMYL PHENYLACETATE.**—7s. 6d. to 12s. 6d. **AMYL SALICYLATE.**—3s. 6d. to 4s. 6d. **ANISALDEHYDE.**—20s., easier. **ANISALDEHYDE.**—13s. to 14s. **ANISIC ALCOHOL.**—

55s. to 65s. **ANISIC ALDEHYDE.**—Ex para-cresol, 25s. to 27s. 6d.; ex anethole, 40s.

BENZALDEHYDE.—4s. 9d. to 5s. 6d. **BENZOPHENONE.**—12s. 6d. to 13s. 6d. **BENZYL ALCOHOL.**—3s. 6d. to 4s. 6d. **BENZYL ACETATE.**—3s. 6d. to 4s. 6d. **BENZYL BENZOATE.**—Perfumers', 5s. to 6s. **BENZYL CINNAMATE.**—12s. 6d. **BENZYL ISOEUGENOL.**—35s. **BENZYL PROPIONATE.**—7s. 6d. to 8s. 6d., firmer. **BENZYL SALICYLATE.**—7s. 6d. to 9s., firmer. **BENZYL SUCCINATE.**—20s. to 22s. 6d. **BENZYLIDENE ACETONE.**—16s. to 17s. 6d. **BORNEOL.**—10s. 6d. **BORNYL ACETATE.**—10s. to 12s. 6d. **BROMYSTYROL.**—32s. 6d. to 35s. **BUTYRIC ACID.**—8s.

CINNAMIC ALCOHOL.—17s. 6d. to 18s. 6d. **CINNAMIC ALDEHYDE.**—7s. to 8s., easier. **CINNAMYL ACETATE.**—24s. 6d. **CINNAMYL BUTYRATE.**—25s. **CITRAL.**—15s. to 40s., according to grade. **CITRONELLAL.**—50s. **CITRONELLOL.**—Ex Ceylon, 30s. to 32s. 6d.; ex Java, 45s. **COUMARIN.**—19s. to 20s.

DIETHYL PHTHALATE.—2s. to 2s. 6d. **DIMETHYL BENZYL CARBINOL.**—50s. **DIMETHYL HYDROQUINONE.**—40s. **DIPHENYL METHANE.**—6s. 6d. to 7s. **DIPHENYL OXIDE.**—5s. 6d.

ETHYL BENZOATE.—5s. 6d. to 6s. 6d. **ETHYL BUTYRATE.**—8s. to 9s. **ETHYL CINNAMATE.**—12s. 6d. to 14s. **ETHYL OENANTHATE.**—40s. to 42s. 6d. **ETHYL PHENYLACETATE.**—7s. 6d. to 8s. **ETHYL SALICYLATE.**—5s. to 6s. **EUCALYPTOL.**—11s. 6d. to 13s., a firmer market. **EUGENOL.**—13s. 6d. to 16s.

GERANIOL.—Ex Ceylon, 20s. to 27s. 6d.; ex Java, firmer, 30s. to 45s. **GERANYL ACETATE.**—Ex Java, 35s.

HELIOTROPINE.—22s. 6d. to 25s. **HYDROXYCITRONELLAL.**—65s. to 80s.

INDOL.—20s. per oz. **IONONE** (100 per cent.).—37s. 6d. to 40s. **ISOBUTYL BENZOATE.**—6s. to 8s. 6d. **ISOBUTYL ACETATE.**—2s. 9d. to 3s. 6d. **ISOBUTYL SALICYLATE.**—6s. to 7s. **ISOEUGENOL.**—17s. to 19s. 6d. **LINALOL.**—48s. to 50s., easier. **LINALYL ACETATE.**—51s. to 52s. 6d., easier.

METHYL ACETOPHENONE.—12s. 6d. to 14s. **METHYL ANTHRANILATE.**—17s. 6d. to 18s. 6d. **METHYL BENZOATE.**—6s. to 6s. 6d. **METHYL CINNAMATE.**—12s. 6d. to 13s. **METHYL PHENYLACETATE.**—7s. 6d. to 8s. 6d. **METHYL IONONE.**—37s. 6d. to 42s. 6d., firmer. **MUSK KETONE.**—45s. **MUSK XYLOL.**—13s. **MUSTARD OIL.**—18s. 6d. to 20s.

NEROLIN BROMELIA.—17s. 6d. **NEROLIN YARA YARA.**—9s. 6d. to 10s. 6d.

PARACRESYL ACETATE.—8s. **PARACRESYL PHENYLACETATE.**—10s. 6d. to 12s. **PHENYLACETALDEHYDE.**—60s. **PHENYLACETIC ACID.**—7s. to 8s. 6d. **PHENYLETHYL ALCOHOL.**—18s. to 20s., firmer. **PHENYLPROPYL ALCOHOL.**—25s.

RHODINOL.—170s. to 180s.

SAFROLE.—10s. 6d. **SANTALOL.**—100s. **STYROLENE ACETATE.**—10s. 6d. to 11s. 6d. **TERPENEOL.**—Perfumers', 5s. 3d. to 5s. 9d. **TERPINYL ACETATE.**—12s. 6d. to 13s. 6d.

TRADE MARKS

(From "The Trade Marks Journal,"
December 31, 1947)

"GIBBS" and device of three turrets; for toilet soap, perfumes, toilet preparations (not medicated), cosmetics, and dentifrices (3). By D. & W. Gibbs, Ltd., Kingscote House, 1 Watergate, London, E.C.4. 653,872 (Associated).

"CRUSADE"; for pharmaceutical preparations and disinfectants, but not including toilet paper or medicated wine or any goods of the same description as toilet paper or medicated wine (5). By J. M. Smith & Co. (London), Ltd., Hampton Chemical Works, Camelot Street, Old Kent Road, London, S.E.15. 651,968.

"SUDERMUX"; for all goods (5). By The Wellcome Foundation, Ltd., 183 Euston Road, London, N.W.1. 650,371 (Associated).

"SELINOC"; for preparations being fungicides, larvacides and insecticides for spraying fruit trees (5). By Bayer Products, Ltd., Africa House, Kingsway, London, W.C.2. 652,107 (Associated).

"NESARUN"; for all goods (5). By Hirst, Brooke & Hirst, Ltd., Sheepscair Works, Sheepscair Street South, Leeds. 653,221.

"THYMYPOL"; for pharmaceutical preparations for human and veterinary use, and sanitary substances (5). By The Zirol Chemical Co., Ltd., Zirol House, Salisbury Road, Shaftesbury, Dorset. 654,189.

Design of Tudor rose; for combs and containers all made of plastics; sponges, brushes included in this class; and materials and non-electric instruments for cleaning purposes (21). By Rosedale Associated Manufacturers, Ltd., Central House, 34 Oxford Street, London, W.1. 649,202 (Associated).

"PERM-O-COMB"; for combs (21). By Eastern Seaboard Plastics, 778 Penn Street, Newark, New Jersey. 650,334.

(From "The Trade Marks Journal," January 7)

"DEKTOL"; for photographic chemicals (1). By Kodak, Ltd., Kodak House, Kingsway, London, W.C.2. 654,531.

"NIZAMI"; for toilet preparations (not medicated), perfumes, and perfumed soap (3). By S.A.R.L., dite les Laboratoires de la Jeunesse, 8 rue de Berri, Paris, France. 642,842.

"CHALIN PARIS" in distinctive lettering, for soaps, shampoos, perfumes, essential oils, cosmetics (not being toilet preparations), toilet rouge, hair lotions and dentifrices (3). By Anciens Etablissements G. Vloeberghs & Fils, 49 rue du Frontispice, Brussels, Belgium. B648,282.

"POND'S"; for lipsticks and non-medicated toilet lotions for the skin (3). By Pond's Extract Co., Ltd., Wadsworth Road, Perivale, Middlesex. 649,002 (Associated).

"VANITY FAIR"; for cosmetic powder boxes made of common metal (3). By Cedric William Platts Blackmore, 21 Lichfield Street, Tamworth, Staffs. 653,504.

"KENPACT"; for cosmetic powder boxes (3). By J. F. Kenure, Ltd., Fagg's Road, Feltham, Middlesex. 653,511.

"STREAMLINE"; for toilet preparations (not medicated), and preparations for the hair (3). By

Topax, Ltd., 35 Otley Road, Shipley, York. 654,934.

"WEEDICIDE"; for weed-killing preparations (5). By Plant Protection, Ltd., Yalding, Kent. 639,590.

"DREDIT"; for insecticides (5). By J. Evershed Son, Ltd., 81 Eastern Road, Brighton 7, Sussex. 642,369.

"GLEM-HON"; for medicated preparations of glycerine, lemon and honey, all for internal use (5). By Robert John Wright, 22 Albert Road, Carrilfergus, co. Antrim, Northern Ireland. 646,124.

"FYTOLAN"; for insecticides, fungicides, and preparations for killing weeds and vermin (5). By Bayer Products, Ltd., Africa House, Kingsway, London, W.C.2. 649,290.

"FOLVITE"; for pharmaceutical preparations consisting of or containing vitamin B (5). By Lederle Laboratories, Inc., 30 Rockefeller Plaza, New York City, N.Y., U.S.A. 649,400.

"RYDASPRIN"; for pharmaceutical products containing aspirin (5). By Ryders, Ltd., 159 Duke Road, London, W.3. B650,994.

"CUPROKYL"; for fungicides containing copper (5). By Hemingway & Co., Ltd., 28 Mars Gate Lane, London, E.15. B651,178.

"TONIPHOS"; for pharmaceutical preparations of phosphorus (5). By Cupal, Ltd., King Street Bridge, Blackburn, Lancs. B651,321.

"PHYTARNOL"; for all goods (5). By May & Baker, Ltd., Dagenham, Essex. 651,639.

"TRITOX"; for fumigating preparations (other than perfumes and not for food) and insecticide (5). By Toxic Products, Ltd., 112 Victoria Dock Road, London, E.16. 651,823.

"CHOLINERGOL"; for medicated preparation derived from choline (5); "UROTRAST"; for pharmaceutical preparations and substances for use in the diagnosis and treatment of disease or disorders of the urinary system (5). By The Wellcome Foundation, Ltd., 183 Euston Road, London, N.W.1. 652,419 and 652,429.

"SULFASTERN"; for pharmaceutical preparations, medical and surgical plasters and material prepared for bandaging, all containing or impregnated with sulphanilamide preparations or substances (5). By J. R. Geigy Société Anonyme, Basle, 16, Switzerland. 652,520.

"NEMBUDEINE"; for medicated preparations for use as sedatives, analgesics and antipyretics (5). By Abbott Laboratories, 14th Street, North Chicago, Lake, Illinois, U.S.A. 652,573 (Associated).

"SANMEX"; for pharmaceutical preparations for human and veterinary use; and sanitary substances, infants' and invalids' foods, medical and surgical plasters, material prepared for bandaging, material for stopping teeth, dental wax, disinfectants, and preparations for killing weeds and vermin (5). By The British Products Sanmex Co., Ltd., 23 St. Andrew's Square, Glasgow, C.1. 653,706 (Associated).

"KURBAKOL"; for pharmaceutical preparations and substances (5). By J. Glyn Jones, Withington, Manchester, 20. B652,534.

"CLENTONA"; for drenches for cattle (5). By Bell & Sons, Ltd., Silverdale Works, Silverdale Avenue, Liverpool, 13. 653,971.

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ANISEED
LIME, Etc. Etc.

PERFUME COMPOUNDS

*Produced against specific
requirements.
Samples matched.
Raw Materials suitably
Perfumed.*

Samples and details on request

A. G. H E R S O M

263 UXBRIDGE ROAD
HAMPTON HILL, MIDDLESEX
Tel.: Molesey 3311 Grams.: Hersom, Phone, London

**FOR
BARKS
ROOTS
HERBS & GUMS
WHOLE
CUT
or POWDERED**

TRY—

BROME & SCHIMME

WHOLESALE DRUGGISTS
BOTANICAL DRUG IMPORTERS
AND SPICE MERCHANTS

7 LEATHER MARKET, LONDON, S.E.

Tel: HOP 0825-6-7 Cables: Bomshlm, London
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Specialists in Crude Drugs

**NEW or SECONDHAND MACHINERY
or Chemical Plant of any kind**

REED BROTHERS (Engineering) LTD

Bevis Marks House, London, E.C.3
Telephone - - AVENue 1677/8

HYOSCYAMUS MUTICUS; SENNA (Alexan-
drian, handpicked) Pods, Leaves and Siftings
HENNA, Leaves and Powder; DATURA, Mete
and Stramonium; PEGANUM HARMALA
SEEDS; KHELLIN SEEDS, etc., etc. Prompt
shipments from stock. Samples and lowest
quotations from: LEWIS BUSUTTIL, 26 Sheri-
Pacha Street, Cairo, Egypt. Telegrams
"Lebut Cairo."

for **INDIAN BOTANICALS,
CRUDE DRUGS,
FOREST PRODUCTS, GUMS,
MEDICINAL PLANTS, SEEDS
SPICES, ETC. to**

B.P., U.S.P., B.P.C. & N.F. Standards.

Export Enquiries to:

**THE INDIGENOUS
MANUFACTURES & PRODUCE (Sales) CO.
160 Govindappa Naik Street, Madras
Cables: Dandelions**

"National" Dispensing Bottles

are Strong, Serviceable and Sure-selling

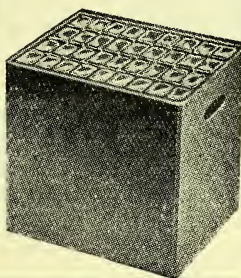
NEATLY PACKED IN 6 DOZEN
RETURNABLE CARTONS

- ★ CONVENIENT IN SIZE
- ★ EASY TO HANDLE
- ★ UNIFORM IN QUALITY

SCREW CAPS SUPPLIED IN
WHITE-ENAMELLED METAL



"NATIONAL" Production

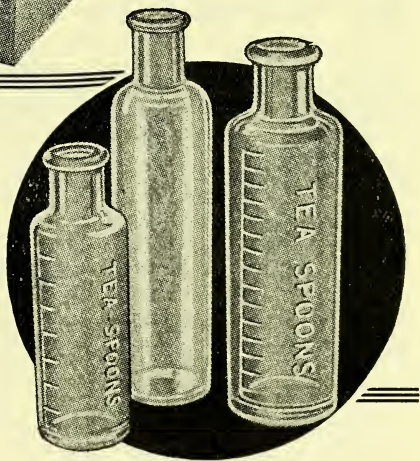


Vials

of "NATIONAL" quality

Ranging in size $\frac{1}{2}$ oz. up to 3 oz.
Plain or teaspoon graduations
Medium and tall types.

MANUFACTURED IN BEST QUALITY
WHITE FLINT, AND PACKED IN
RETURNABLE CARTONS



Restrictions outside our control may
not allow us to meet every requirement

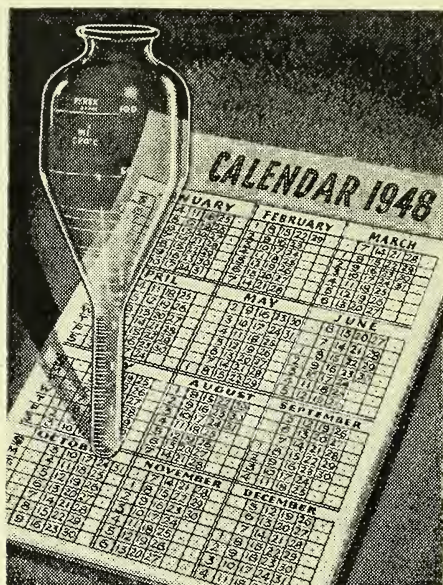
National Glass Works (York) Ltd.

Yorks: FISHERGATE, YORK
Telephone: York 3021

London Office: 105 HATTON GARDEN, E.C.1

Telephone: Holborn 2146

WHOLESALE ONLY



Our Resolution for 1948.

WE are resolved that the many features which go to make PYREX Brand Graduated Glassware a product of the highest standard shall be maintained, and even improved upon, if possible, by modern Scientific tests and experiments.

This remarkable borosilicate glassware has the low co-efficient of expansion of 3.2×10^{-6} per degree centigrade, and this characteristic allows the structure of the glass to be made more robust than that of ordinary composition, thus saving a high percentage of breakage losses due to everyday handling.

PYREX Brand Graduated Glassware is made up in two N.P.L. Standards of accuracy, namely, Class B for everyday laboratory usage, and Class A for more meticulous research or analytical work.

PYREX Brand Graduated Glassware is supplied only through Laboratory Furnishers, but illustrated Catalogue and two free copies of our Chemist's Notebook will be sent direct on application to us.

PYREX
Registered Trade Mark Brand
GRADUATED GLASSWARE

made by
James A. Jobling & Co. Ltd.,
Wear Glass Works, Sunderland.



Handsomely designed Table and Desk thermometers which you can sell on very profitable terms. Also Wall models in various colours.

PRICE 15/- Retail.

Rototherm
DIAL THERMOMETERS

THE BRITISH ROTOTHERM CO., LTD.
Merton Abbey, S.W.19 Tele.: Lib. 3404
and at 87 St. Vincent Street, Glasgow, C.2

Pitchf.

THE RETURN OF BRANDED SOFT DRINKS

From the beginning of February, manufacturers of soft drinks will be permitted to put their own brand labels on their bottles. There are bound to remain with retailers certain stocks of soft drinks labelled S.D.I., and it will not be possible for manufacturers to accept these in exchange for their own branded goods. To help the retailer to clear these stocks, advertisements are being published in the press throughout Gt. Britain during January to inform the public of the position.

Issued by
The Soft Drinks Industry (War Time) Association Ltd.
42 Upper Grosvenor Street, London, W.1

THE

"MATER"

CLINICAL REGD.

The position of the Mercury column is at once perfectly plain. Red markings above 00.4

**ALL TYPES OF
CLINICAL
AND OTHER
THERMOMETERS**

PERKEN, SON & CO. LTD.

(ESTABLISHED 1852)

8 HATTON GARDEN
LONDON, E.C.1

Telephone: 0724 Holborn

Telegrams:

"Optimus, Smith, London"

Wholesale Agents for Clinical
Thermometers:

FASSETT & JOHNSON, LTD.
86 Clerkenwell Rd. London, E.C.1



**ATTRACTIVE
TRANSOTAPE**

*PUTS YOUR
PACK ON A
PEDESTAL*

JOHN GOSHERON & CO LTD

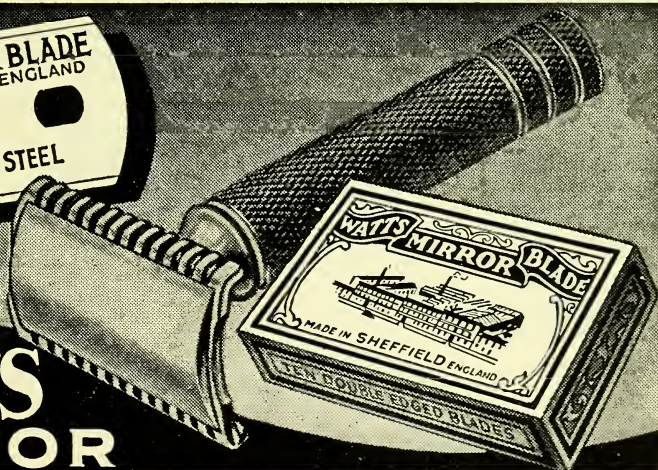
GAYFORD ROAD LONDON W 12

SHE 3326 (5 lines)

PW 4714



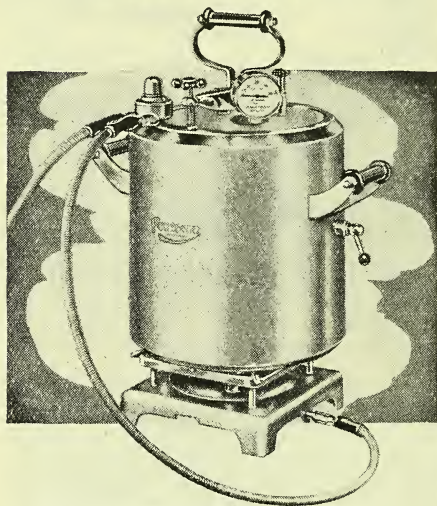
**WATTS
MIRROR
SAFETY RAZOR BLADES**
MADE THROUGHOUT FROM STAINLESS STEEL
**KEENER EDGES
SMOOTHER SHAVES
LONGER SERVICE**



JOHN WATTS
(SHEFFIELD & LONDON LTD)
LAMBERT WORKS, SHEFFIELD. 3
LONDON: 18, SOHO SQUARE, W.1.

PENTECON · PENTECON · PENTECON · PENTECON

the advantages of the NEW PENTECON Autoclave



THERMOSTATIC CONTROL

The thermostat, independent of the pressure factor, is the most accurate means of obtaining a consistent temperature. Designed for use over a gas ring or portable burner, it is constantly in control, after initial adjustment to suit the requirements.

Made from a special formula aluminium, the 'Pentecon' is light and handy to move about. The lid design provides a steam-tight joint, which cannot be opened under pressure.

To use saturated steam, allowing operation at lower pressure in relation to temperature, an Air Blow-off Valve is fitted. A Pressure Regulator Valve whistles when the required temperature is reached.

The temperature of a liquid in an open vessel within the 'Pentecon' can be checked by previously inserting a chemical thermometer through a gland in the lid.

CAPACITY—11" x 10½". Contents approx. 26 pints or seven 20 oz., or M.R.C. Standard Blood Bottles.

The 'Pentecon' is economical in price and operating costs. Price (excluding gas ring and flexible tubing, which are not supplied) **£16. 16. 0**

A fully descriptive leaflet will be sent, post free, on request to Dept. 3, Pentecon, Ltd., Accrington. Please mention the name and address of your normal supplier

PENTECON LTD. ACCRINGTON

"Why I support the SILVER LINING

Savings Campaign"

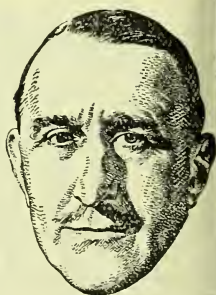
by J. Arthur Rank

"Many of you will remember the film made for Two Cities by Sir Laurence Olivier—Henry V. It was the story of a small and very tired British army, led by a courageous and determined king in battle with a much larger enemy.

Today it is not an army that is in action: it is the whole nation. Like the soldiers in Henry V and for the same honourable reasons, we are tired. And, like those soldiers, we need all our courage and determination to win this new battle

We cannot all play as spectacular a part as our archers at Agincourt. But we all can make a tremendous contribution by supporting the Silver Lining Savings Campaign with all our resources and all our strength.

In this present crisis increased Savings will tell the world that we are determined to win."



*National Savings
for National Prosperity*

Issued by the National Savings Committee

THIS NAME MAKES

SALES

FREE OF PURCHASE TAX

In many prominent magazines we are telling *your* customers about Barber Sun Lamps, telling them to ask their stockist for fuller details. You just cannot afford to miss the sales our advertising will bring you. Cash in on the sales-appeal of Barber Sun Lamps and link up with the publicity by taking advantage of the display material and counter leaflets free to stockists. For particulars, pin this page to your letterheading and post to us today. Or write, if you prefer.

Barber Electrical Services Ltd., Bournville, Birmingham

Sold only against prescriptions

**BARBER
SUN LAMPS**



7 Good Reasons why you should recommend

"Rod-Antu"

to kill RATS and MICE . . .

- | | |
|--|--|
| 1 Low lethal dose towards rats and mice. | 5 Generous discount, plus bonus terms. |
| 2 A stable product, without variation in toxicity. | 6 Attractively packed, backed up by display material. |
| 3 Efficient and easy to use. | 7 Nationally advertised. |
| 4 It can be recommended with confidence to give good results. | |

1/6d. and 5/- per tin, subject to 33½% Discount, plus an extra 10% on orders of 3 doz. small or 1 doz. large.

Send your orders to:— **RODMILL CHEMICAL Co. Ltd., 49 St. Anne Street, LIVERPOOL, 3**



Whilst considerable delay may occur due to lines being temporarily out of stock, we are endeavouring to meet our customers' requirements proportionately to their normal demands.

**BEATSON CLARK
BOTTLES**



BEATSON, CLARK & CO. LTD.
MANUFACTURERS OF CHEMICAL AND MEDICAL GLASS
ROTHERHAM Established 1751 **YORKS**

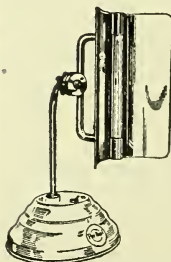
(R) BC52



What about YOU?

Perihel sunlamps are the most publicised products of their kind in Great Britain. Are you taking full advantage of this? We invite YOU, as a Perihel retailer, to link up with our co-operative advertising scheme, and increase your own prestige—and profit—through your local press. Perihel will pay 50% of space costs and supply the necessary printing blocks free. Display material will also be supplied free on application to PERIHEL.

HANDISUN (as illustrated)
Ultra-Violet lamp for home use
£15. 15. 0.



SUN LAMPS
Perihel
BRITISH MADE

Perihel Ltd. (Dept. CD3), Edge St., London, W.8

Richardsons, Leicester.



ESTABLISHED — 1793

A CENTURY AND A HALF OF EXPERIENCE AS
MANUFACTURING CHEMISTS, COMBINED WITH THE
MOST MODERN SCIENTIFIC DEVELOPMENT, GUARANTEES
THE RELIABILITY OF RICHARDSONS PRODUCTS

MAKERS OF PILLS, TABLETS, CAPSULES, GALENICALS
AND ALL PHARMACEUTICAL REQUIREMENTS, SUPPLIERS
OF ALL TYPES OF SURGICAL INSTRUMENTS & REQUISITES

HEAD OFFICE AND WORKS, EVINGTON VALLEY RD., LEIC., TEL. 24571 (2 lines)
SURGICAL INSTRUMENTS DEPT., LILLIE HOUSE, LONDON RD., LEIC., TEL. 58065

DON'T ORDER

TOMORROW

ORDER TO-DAY

YOUR

CLARENDON

MEDICATED MINTS

RETAIL

8½
INC TAX

57/- GROSS
Plus 33½ P.T.

N.B. Would Chemists kindly note that we are able to deliver stocks within seven days of receipt of order.

**ALL ORDERS ARE BEING DELIVERED
IN STRICT ROTATION**

Order from your usual Wholesaler or from
JOHNSON AGENCIES (Proprietaries) LTD
Clarendon Works, 32-40, North Street, HORSHAM, SUSSEX



bandbox shampoo

Fine quality . . . beautiful results . . . good advertising . . . these have placed Bandbox high in public esteem. Reap the benefit of our new 1948 advertising by linking up with the window and counter displays, which are available on request. And do please order well in advance to ensure supplies . . . from your wholesaler or direct. **Ashe Laboratories Ltd. 120-122 Victoria Street, London, S.W.1** Telephone: Victoria 6781

ASTHMA

ONE Tablet
often gives relief
in

30 seconds

Dō-Dō

TABLETS

Now available
in three sizes

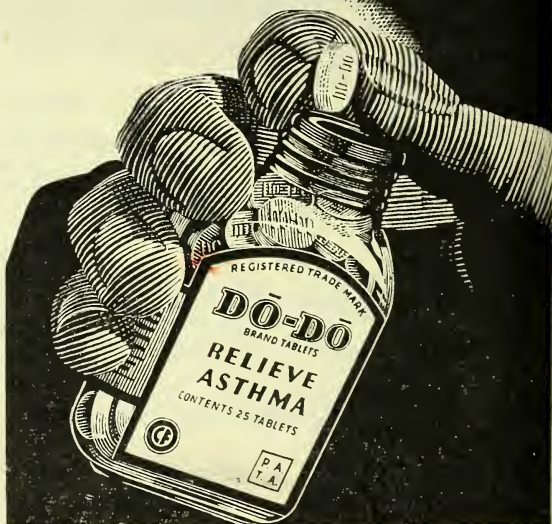
1/3, 3/9, 13/1½

INCL. P.T.

**INTERNATIONAL
LABORATORIES**
LTD.

1-3 SMEDLEY STREET,
LONDON, S.W.8

MACaulay 3481



URQUALET

TRADE MARK

NEW ELECTRIC STERILIZER

...es the Steriliza-
... and Assembly
...rings Safe and
...proof.

CE
- 15 - 0

ing Capacity
t... Bolls
o Minutes.
all
en-
8g"
and
Dia-
of



GIGAL EQUIPMENT SUPPLIES LTD
ESTFIELDS ROAD, LONDON, W.3

ame of Local Dealers on request

TAYLOR 608

Your reputation
will advance by
caps & bounds
if you prescribe



OINTMENTS
POWDERS
LOTIONS

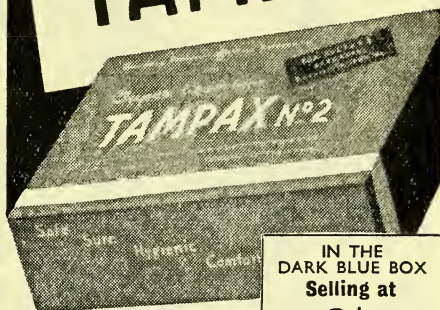
r all foot troubles

NAVANO PREPARATIONS LTD

WESTMORLAND AVE., BLACKPOOL

As advertised in the public press

A **NEW**
extra absorbent
TAMPAX



IN THE
DARK BLUE BOX
Selling at

2/-

per packet of 10
TRADE: 18/- DOZ.

introduced
by express
desire of women
themselves...

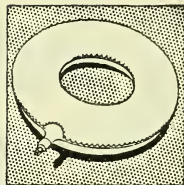
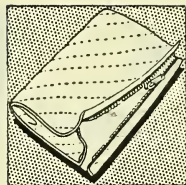
Super absorbent
TAMPAX No. 2
40% more absorbent

means extra sales for you because it makes
available the benefits of Tampax to yet
thousands more women. Display it along-
side the ever-popular Regular Tampax
No. 1, both in your window and on your
counter. The two absorbency-sizes of
Tampax now cater for all requirements.

A NEW line to make
NEW sales alongside
Regular TAMPAX No. 1



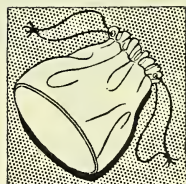
Tampax Ltd., Sales Office: 110 Jermyn Street,
London, S.W.1 Phone: Whitehall 8696/7.



R *zip pochette*
rubber air ring
baby bag
arcular toilet bag
rubber baby pain



PRESCRIPTION FOR A HOUSEWIFE



The LI-LO Products illustrated are all chosen from an extensive range of best selling Surgical sundries. These long established favourites, and the latest additions to the LI-LO list, are rapidly gaining widespread success.

Write for full list and trade terms to:—

P. B. COW & CO., LTD., ESTABLISHED 18
12, HAY HILL, BERKELEY SQ., LONDON, W.
TEL.: REGENT 7401 (10 LINES)

**WOMEN KNOW FROM
EXPERIENCE THE
SECURE COMFORT
OF**

MENE
SANITARY TOWELS

and

Menex
SOLUBLE

**SUPPLY THEM
WHENEVER YOU CAN**

JOHNSON & SONS LTD. CHESTERFIELD & LONDON

ASPIRIN 309

Supplies of this New, Palatable and convenient form of Aspirin—with the lemon flavour—are immediately available. Extensive Advertising supports you and attracts display material sent upon request.

Manufactured by
SMITH, SAVILLE & PARTNERS Ltd.
Willshaw St., London, S.E.14

EVERSHARP RAZOR

BLADES
FIT
EVER-READY RAZORS
Wholesale Price **18/-** Incl. Tax
Gross Post Free

DEPT. J **L. FRANKENBERG Ltd.**
37 HOUNDSDITCH, LONDON, E.C.3
— WHOLESALERS APPLY FOR TERMS —

MENOVO

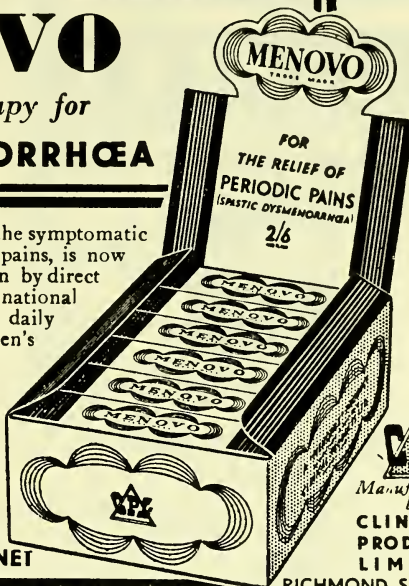
The Rational Therapy for
SPASTIC DYSMENORRHOEA

MENOVO, an entirely new approach to the symptomatic and antispasmodic therapy for menstrual pains, is now being introduced to the medical profession by direct mail and press announcements. A national campaign has also been arranged in the daily press, provincial newspapers and women's magazines

FORMULA: Bromisovalerylurea $\frac{1}{2}$ gr. (6.25 mg.); Carbromal $\frac{1}{2}$ gr. (48.75 mg.); acetphenetidin (phenacetin) $2\frac{1}{4}$ gr. (140.00 mg.); phed. hydrochlor $\frac{1}{10}$ gr. (1.95 mg.); Cod. in phosph. $\frac{1}{10}$ gr. (3.25 mg.); Ext. bellad. succ. $\frac{1}{16}$ gr. (90 mc.); Sod. bicarb. 2 gr. (130.00 mg.); aromatic carminative q.s., Excipient q.s.

Orders for "smalls" may be handled by your usual wholesaler. Bonus parcels obtainable only from the sole distributors in the U.K.

MAW OF BARNET



Manufactured by
**CLINICAL
PRODUCTS
LIMITED**
RICHMOND, SURREY

STOP PROVIDING THE BLACK MARKET
WITH EMPTY CONTAINERS

In the London Metropolitan area alone over 250,000 C.R.S containers are lost to legitimate trading each week!

THOUSANDS are finding their way to the Black Market.
THOUSANDS are rendered useless through careless handling.
THOUSANDS are still being given away to customers.

You owe it to yourself, your customer and the nation to save all empty C.R.S containers... look for this sign on the van before you hand them over



CONTAINER RECOVERY SERVICE

S.P.D. LIMITED, UNILEVER HOUSE,
BLACKFRIARS, LONDON, E.C.4

Applied before Work

ROZALEX

REG'D BRAND

Keeps Hands Clean & Healthy

Temporary
Pack

For use in the home

Supplied in Tins

★ ALSO ROZALEX OINTMENT IN JARS
Both retailing at 2/9d. incl. P.T.

Order through your usual wholesaler

Rozalex Limited, 10 Norfolk St., Manchester, 2

Keenest and Cleanest

There isn't a better blade, made than the new "Wanie," now designed with cut-out corners, fully slotted to fit ALL holders, and manufactured from High-Grade Surgical Steel. Selling at 1/9 per dozen including purchase tax, "Wanie" is shaving's best value. Free Show-card for your counter. Send for stocks today.

1/9d. per dozen including P.T.

LONDON & PROVINCIAL FACTORS LTD.

"Wanie" House, Tottenham Court Rd., London, W.

NAME YOUR USUAL WHOLESALER

Wholesalers Enquiries Specially Invited

A DELICATE SUBJECT — FOR DELICATE SKINS

The **TOTTY-POT**

Trade
Mark
"Totty
Pot"
Patent-
applied for

*Rubber Ringed for
— Cushion Comfort*

**A NON-CORROSIVE ACID-PROOF
HYGIENIC CHILD'S CHAMBER**Detachable ring, easily removed for
cleaning purposes**Made of Aluminium****ANODISED IN SOFT PASTEL SHADE**

SOLE MANUFACTURERS

J. BILLIG & SONS LTD.,

ESTABLISHED 1899

BILTIN WORKS, FONTHILL RD LONDON N.4.

TELEPHONE: ARCHWAY 2753 & 3858

ONLY
A
BELL
IS ...

as a
as a

**"Bell"
BALL PEN**

Writes for at least 6 months
without refill.

Does not "blob" ... it dries
and writes.

Is a self-fit-yourself refill supplied
with each pen.

Writes up to 8 carbons at once.

Retails at **24/-**

plus 8/- pur. tax

G. MICHAEL NOAKES
Blackville St., Piccadilly, W.1

Telephone: REGent 2137/2138

and Telegrams: GENOSCOs, PICCY, LONDON
and Telegrams: GENOSCOs, LONDON

ADVERTISING

When your dog is nobody's friend

He's probably ill, dry nose, scratchy food effects, no freedom. Your dog needs Vitamin B, daily. George Bell's Blood Salts Powder will give it to him. 10 Powders for 7d. from Chemists and Pet Stores.

GEORGE BELL'S FAMOUS DOG BLOOD SALT
to: Bell & Sons Ltd., 7 Silverdale Works, Liverpool

BELL'S Blood Salts

is forcing sales up

Advertisements for George Bell's Blood Salts for dogs, are appearing frequently in every national daily and all the important magazines, creating a demand amongst your customers. Stock and display this selling line. Samples and prices will be sent on request.

GEORGE BELL'S
Blood Salts

ORDER TODAY

Bell & Sons Ltd., 18 Silverdale Works, Liverpool 13

SCP 10

EVERY TIME YOU SELL A LARGE SIZE CARTERS . . 1/- FOR YOU!

YES, on every 3/10 size Carters that you sell you can make 1/- for yourself. You'll not find it difficult either, because the customer saves 10d. by buying the large size. He gets 5 extra pills, too. Send your order now for large-size Carters Little Liver Pills and stop losing easy profits! Supplies are readily available.

ORDER YOUR CARTERS LITTLE LIVER PILLS *Now.*
from THOMAS MARNS LTD., 2 Caxton Street, S.W.1

GOODWILL!

RADIO TIMES
NEWS of the WORLD
DAILY EXPRESS
THE PEOPLE
DAILY MIRROR
NEWS CHRONICLE

Frequent advertisements in these and other leading papers are building strong goodwill for Mathaplast. This well-advertised line won't stay long on the shelf.



"Mathaplast"

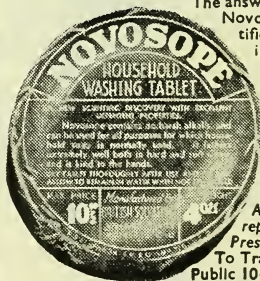
REGD

**FIRST AID
ELASTIC DRESSINGS**

Wm. MATHER LTD., MANCHESTER 15

Coupon Free! NOVO-SOPE

**The new household
washing tablet**



The answer to the soap shortage. Novo-sope, the new scientific discovery with amazing cleansing properties. The Novo-sope Tablet is ideal for all purposes for which household soap is normally used. It contains no harmful alkalis, is economical in use and LATHS EXTREMELY WELL. hard or soft water. As recommended and reported in the National Press.

To Trade 7/9 per dozen.
Public 10½d. per tablet.
(In England and Wales only).

BRITISH SOLVATES LTD., Wharf Road, Ponders End, Middlesex. Tel.: HOWARD 223
Scottish Distributors: Southern Mfg. Co., Ltd.
214 West Regent Street, Glasgow, C.2
Orders executed in strict rotation.

Femese
REGD.

**SANITARY
TOWELS**

*for
Perfect Reliability*

**NON CHAFING
HIGHLY ABSORBENT**
In various sizes

**WILFRED STRETCH & CO.
LIMITED
CASTLETON • ROCHDALE**

**THERE IS NOT
SUFFICIENT**

Beaulah's

**FAMOUS
MALTED MILK**

**For all the people
who want it.**

Our policy therefore is
to distribute all available
quantities to our Chemist
Friends only.

In the popular size
at present ... **2/6**



**J. & J. BEAULAH LIMITED
LONDON LINCS.**

**An advance
in
Asthma
medication**

Respaton
TABLETS

Indication

Respaton Tablets are specially indicated for the speedy relief of Asthma, Bronchial Asthma, Bronchitis, Emphysema and cognate ailments.

Action

Respaton Tablets are : Antispasmodic, Antipyretic, Analgesic, Sedative.

Formula

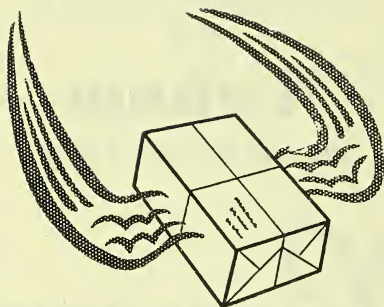
<i>Ephedrine Hydrochloride</i> ...	$\frac{1}{4}$ grain
<i>Ext. Bellad. Sicc. B.P.</i> ...	$\frac{1}{10}$ "
<i>Dioxyamidopyrine</i> ...	$\frac{1}{12}$ "
<i>Ipecac Pulverat. B.P.</i> ...	$\frac{1}{10}$ "
<i>Theobromine</i> ...	"
<i>Calcium Lactate</i> ...	"
<i>Lactose</i> ...	"

Respaton Tablets are now being introduced to the Medical Profession. Chemists would be well advised to lay in a small stock in anticipation of prescriptions.

In Bottles 25 tablets 4/4d.; 100 tablets 15/6d., inc. P.T. Usual trade terms.

MEDICAL SPECIFICS LTD.

West India House
Maryland Street, Liverpool, 1.



OXOID laboratory
preparations are despatched
with unfailing promptness,
and reach you with gratify-
ing speed

This is a service you
can rely on; every order is
an emergency order.

*Write, telephone
or wire your
instructions.*

OXO LIMITED

MEDICAL DEPARTMENT

THAMES HOUSE, QUEEN ST. PLACE,
LONDON, EC4

TELEPHONE CENTRAL 9781

FOR CHAPPED AND ROUGHENED SKIN

RECOMMEND

A NAESTHETIC
A NTISEPTIC

DERMAL LOTION

(NON-GREASY)



Suits women for their hands
and for use under make-up

An excellent after-shave
lotion for men.

EXTRA DISCOUNTS ON 3, 6 AND
12 doz. AND A BONUS ON 12 doz.

Telephone: BYRON 1440/1800

Telegrams: Damancy Harrow



DAMANCY & CO. LTD. HARR-
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HONEY, GLYCERINE & LEMON

Cough Linctus

a popular product at a popular price,
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and Glycerine. The ingredients speak
for themselves — you cannot afford
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Ask also for particulars
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**WINTER
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includes lead-
ing newspapers
in all districts.
Now is the time
to stock and
display.

Manufactured by

D. Bee Food Products Ltd., New Charles St., Goswell Rd., E.C.1

SHERLEY'S always make Regular Customers!

Be sure of a fair share of the big, regular demand for the Sherley's preparations please order well ahead—empty shelves can only mean disappointment. There is no treasure like a regular customer. He is the mainstay of profitable trading; a source of valuable goodwill. Adequate stocks of Sherley's Dog and Cat Medicines will keep the "regulars" happy and turn many a "stranger" into a good friend.



SHERLEY'S DOG MEDICINES

SHERLEY & CO. LTD., 16/18 MARSHALSEA ROAD, LONDON, S.E. 1

There is



THESE WASHING POWDER -

Makes Washing *whiter*
Keeps Hands *beautiful*

You sell easier, better clothes cleaning, extra leisure and well-kept hands when you sell SEMO Clothes Washing Powder. No wonder housewives come back for more! A nationally advertised line that does all that is claimed for it, you can recommend SEMO with the certainty of satisfaction.

Write for generous trade terms and attractive display material.
Prompt Delivery.

2 Per Packet **NO COUPONS**

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CONTROL OF HEAD LICE

Nits and Head Lice can now be dealt with quickly and economically without unpleasant evidence of treatment.

An N.W.F. formula now being used extensively by Public Health Authorities.

'Semprolia'

MEDICATED (LETHANE) HAIR OIL N.W.F.

Insecticide for control of Nits and Head Lice

★
'SEMPROLIA' MEDICATED (LETHANE) HAIR OIL IS
IN URGENT AND RAPIDLY INCREASING DEMAND

Retail (2-oz.) 1/3d. including P.T.
List 8/- doz. Packed in 2-dozen outers.

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Check your stock — replacements should be ordered right away — the Macaulay's season is almost on us. A completely new idea in Lung Syrup advertising is going to bring sufferers from Coughs into your shop this winter to ask for Macaulay's—to demand it, in fact, and to walk out again if you are

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OATREX

new prices

	To Wholesaler (per doz.)	To Retailer (per doz.)	To Consumer (per tin)
FINE (red label)			
1-lb. tin	15/5	17/7	1/10
2-lb. „	29/5	33/7	3/6
MEDIUM (green label)			
1-lb. tin	14/9	16/10	1/9
2-lb. „	28/-	32/-	3/4

Medium - 2 points per lb.
Fine - No points.

Prepared from the finest Scottish Oats

*Enquiries to Kings of Kingsbury (Sales), Ltd.,
1, London Bridge S.E.1.*

KING'S PATENT PRE-COOKED OATMEAL

SAFELY REMOVES SUPERFLUOUS HAIR FROM ARMS & LEGS



like
Dhaussy
PAD

HAIR REMOVER
AND
SKIN BEAUTIFIER

ABSOLUTELY
ODOURLESS

MADE IN ENGLAND

RETAIL 7^p. INC. TAX

Per packet of one
double-sided pad

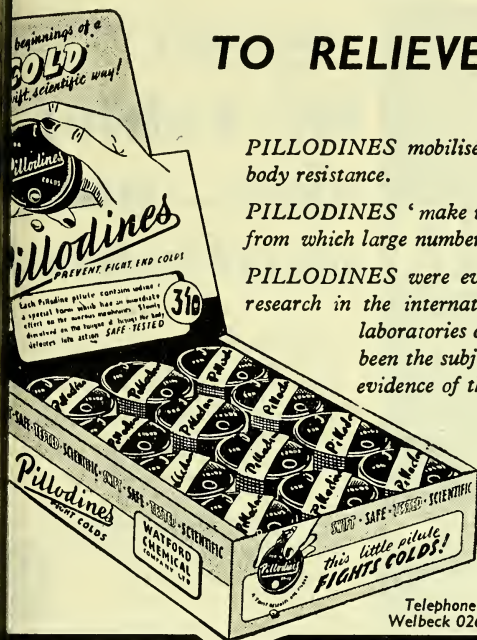
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ALFRED FRANKS & BARTLET
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PILLODINES mobilise and set in motion the natural body resistance.

PILLODINES 'make up' the serious Iodine deficiency from which large numbers of people are suffering to-day.

PILLODINES were evolved after years of scientific research in the internationally famous pharmaceutical laboratories of R. Shering. Pillodines have been the subject of organised tests providing evidence of their efficiency.

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Available in limited
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Extract of
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above percentages
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**IMPORTANT!****18 Tablet
size...now
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In packs of 6 and 18 tablets
New Retail Prices 7½d. & 1/6
Trade per doz. 4/- & 10/-
Plus Purchase Tax

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Chalcot Road, London, N.W.1

Telephone: PRImrose 3395/677.



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PRICE INCREASES of Simpkin's Products

	Retail Sd. per ounce	Wholesale 3/6 per lb. plus ½ tax
Medications		
Packed Lines		
Pastilles	1/8 per tin	10/9 per doz. plus ½ tax=3/7
Lozenges	1/8 per tin	10/9 per doz. plus ½ tax=3/7
in tins		
Liquorice & Menthol Pellets	1/1½ (skillets)	11/- per carton of 24 plus ½ tax=3/8
ditto	8½d.	9/3 per carton of 24 plus ½ tax=3/1
(tins)		
V.S.P.	2/- per tin	13/- per doz. plus ½ tax=4/4. 3 doz. (13 to doz.) @ 13/- per doz. plus ½ tax on 14 doz.=£3/0/8
Rhumuv Capsules	3/10	24/- per doz. plus ½ tax=8/-
Medophyll Tablets	7/2	45/- per doz. plus ½ tax=15/-
	5/6	36/- per doz. plus ½ tax=12/-

Simpkin's of Sheffield

RECOMMENDED FOR NERVES

for
**DR. NIBLETT'S
VITAL RENEWER
NERVE SEDATIVE**

70 YEARS
Retail price
5/6
per bottle
including
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TRADE DISCOUNT 33½%

C. P. NIBLETT (Est. 1870)
10 LICHFIELD TERRACE, RICHMOND, SURREY
Telephone: RICHmond 3221

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INFANTS PRESERVATIVE



Thousands of mothers have used this preparation for over 70 years for the relief of Wind and other discomforts which occur during teething time. For older children it will be found invaluable for bilious attacks and digestive troubles.

Retail Price 1/7 and 3/9 including Tax
Extensive advertising in the Provincial Press is a constant reminder to a receptive public — the Mothers of Babies and young children.

DRURY'S PHARMACEUTICALS LTD
NEWARK ENGLAND

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PRODUCTS

OPTREX: A scientific eye lotion, sterile, and carefully balanced in its ingredients, which is produced under conditions of clinical asepsis. Approved by doctors, oculists and opticians; can safely be used for all eyes, of all ages, at all times.

FAMEL SYRUP: For coughs, colds, influenza and bronchial troubles. Gets to the root of the cough because it contains soluble Lacto-creosote, which goes to the lungs and breathing passages and there destroys the germs.

★ **OPTULLE:** An open-mesh, sterile, non-adherent dressing, impregnated with a special petroleum compound. Mildly antiseptic and non-irritant. Greatly facilitates dressing and re-dressing of burns, septic wounds, indolent wounds, sloughs, varicose ulcers and fractures. Packed in tins, containing 24 pieces, also in continuous strips 5 yards long by 8 inches wide.

★ **SULPHONA-TULLE:** Of outstanding value for treatment of burns, and in other cases where sulphanilamide is indicated. An open-mesh dressing impregnated with an emulsion containing 10% Sulphanilamide. Supplied in a small light compact case. In continuous strips, 5 yards by 3½ inches, ready for instant use.

★ **SULPHONA-CREAM:** Sulphona-Cream is supplied in tubes. It can be used as an ointment or applied on a sterile spatula direct to a diseased or injured area, or spread on gauze, linen or oiled silk.

★ *Sole Distributors for Optulle, Sulphona-Tulle and Sulphona-Cream:*

**CHAS. F. THACKRAY LTD., THE OLD MEDICAL SCHOOL
PARK STREET, LEEDS, and 38 Welbeck Street, London, W.1**

All these products are manufactured by:

PERIVALE **OPTREX** Ltd. MIDDLESEX

*We feel
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A New Family Shampoo

- ... a CREAM Shampoo in a handy tube
- ... each tube sufficient for 5 SHAMPOOS
- ... SOAPLESS and requires no special rinse
- ... leaves the hair soft and glossy — HAIR CONDITIONING
- ... LATHERS FREELY in hard and soft water
- ... makes all types of hair EASY TO SET
- ... no mixing, no liquid to spill, NO WASTE

Made by the long-established house of Maricopas and backed by a strong advertising campaign in selected newspapers and magazines.

One dozen Koko Cream Shampoo supplied in an attractive display.



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ANTISEPTIC GARGLE

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Box No. 2/230

"TELBAT" (BRAND) ASPIRIN TABLETS B.P.
5 GRAINS

**BULK AND PACKED 12's, 25's, 50's and 100's
FOR IMMEDIATE DELIVERY.
HOME & EXPORT**

**Write: THREE CROWNS TABLET CO.
21—25 Derringham Street, Hull, ENGLAND**

**We Manufacture—Fill—and Pack
for You.** Liquid: From bulk to any
size bottle. Powder and Tablets: Mixed
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FOR THE
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Particulars:—

C. A. SCURR, F.S.M.C., F.B.O.A., F.N.A.O.,
F.I.O., F.C.O., M.P.S.
50 HIGH STREET, BARNET, LONDON, N.

BOTTLES Approx. half ounce with
screw caps 10,000 gross. 7/6 per gross.

MALCOLM STEWART Limited.
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BOTTLES AND JARS

200 gross 6 drm. cylindrical botts. C. Bak. Caps
100 " 2 oz. opal jars. C. Bak. Caps
500 " 1 drm. to 1 ounce perfume bottles.
5000 " plastic and metal caps, various sizes.

B. JAMES, 131 Latimer Rd., London, W.10
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Clear Glass—

BOTTLES with bakelite CAPS
JARS with metal or bakelite CAPS

Also CAPS in quantity to the Trade
Prompt and Reliable Delivery
Price List on enquiry

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Large Supplies of BOTTLES, JARS, Etc.
to Suit the Chemist & Cosmetic Trade

Enquiries Invited. Apply:—

TEMPLE GLASS, Co. Ltd.,
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TINS —LEVER LIDS

Regular supply of small
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Enquiries to—
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Available for prompt delivery

G.M.S BLOCK - - - - 10 cwt
STEARIC ACID - - - - 8 cwt
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SULPHONATED FATTY ALCOHOL POWDER - 1 ton

BOX 2/632

MORELLA CHERRY JUICE, 65%
sugar added, in 5½ kilo tins for sale

Box 67,
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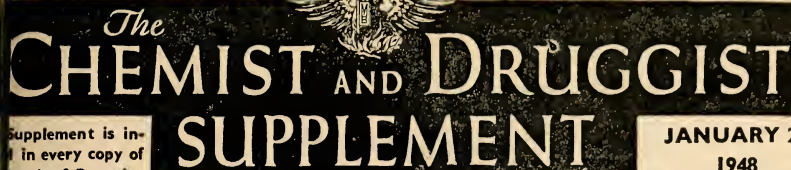
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Are pleased to announce that they are again
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A series of new cosmetic formulas have been
prepared and are now available to our old and
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JANUARY 24
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TANT required. Dispensing and light counter.
hours and conditions. Permanency. Arthur
ace, M.P.S., 23 Wendover Rd., Aylesbury.

TANTS required in the Balham and Bayswater
sts with knowledge of dispensing. Excellent
g conditions and salary. Ricks, Ltd., 298
adish Rd., S.W.12.

TANT required, qualified or unqualified, male. No N.H.I. No Sunday or holiday duties. Rent living accommodation can be arranged. For state usual particulars. Early Bunn, Ltd., Agents, 95 High St., Chelmsford, Essex.

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**OVER 25 YEARS' EXPERIENCE
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Be *Just to yourself*
Arrive at *A*ccurate
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No dislocation to *R*outine of business
Expert *A*dvice
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Chemists own stock sheets priced.
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Licensed Appraisers

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S.W.1. Phone: VICToria 5686**

ASSISTANT, unqualified, male, for dispensing and counter, required at once. Permanency suitable applicant. Terms, etc., Manager, Harold Miller, Ltd., 98 High St., Cheltenham.

ASSISTANT WANTED, male. A newly qualified would find varied and valuable experience in this vacancy. Please apply with the usual particulars, to Strode Cosh & Penfold, Ltd., Lower Union St., Bristol.

BARNSELY, YORKS. Wanted immediately, pharmacist, lady or gentleman, for high-class dispensing business. Applicant with London experience preferred. Hours 9 a.m. to 5.30 p.m. No N.H.I. dispensing. Good wages and permanency. Apply, giving full particulars of experience and copies of testimonials, to R. L. Wilson, Moorhouses, Chemists, 12 Market Hill, Barnsley, Yorks. Phone 2049.

CHANNEL ISLANDS. Qualified assistant required for good-class pharmacy. Congenial surroundings. Accommodation available. C. M. Stone, Chemist, 39 Bath St., Jersey.

REPRESENTATIVES REQUIRED

Owing to Staff promotions, vacancies now occur in both North and South London territories. Applicants should possess the necessary experience and initiative, reside in their areas and be between 30 and 40 years of age.

Prospects are excellent for those possessing the required high-class qualifications. Written applications only can be considered in the first instance and, along with details of past experience, remuneration required and other relevant details, should be addressed, marked 'Representative,' to:—

J. C. GAMBLES & CO. LTD.
209/215 BLACKFRIARS ROAD, LONDON, S.E.1

CHEMISTS' ASSISTANTS (ladies) wanted for clerical work in the N.H.I. checking bureau and stock-pricing departments. Apply National Pharmaceutical Union, 4-5 Queen Sq., W.C.1.

DARWEN Industrial Co-operative Society, Ltd. Qualified pharmacist required as locum for one week, May 31st to June 5th inclusive. Please state terms on application, to H. Hyde, Esq., Secretary, Darwen Industrial Co-operative Society, School St., Darwen.

DISPENSER, lady or gentleman, unqualified, for busy N.H.I. and private dispensing. Good wages. No Sunday or half-day duty. Apply Manager, C. Coutts Michie, Ltd., 175 Kentish Town Rd., N.W.1. Telephone Gulliver 1650.

EASTBOURNE. Qualified assistant for good-class business. £7 and accommodation for good man; also junior. Usual particulars. Marchant, Chemist, Eastbourne.

EAST HAM. Manager (qualified) for branch in working-class district. Brisk cash counter trade, light dispensing. Prospect of accommodation, if necessary. Good salary to energetic man. Apply Box 2/631.

ESSEX. Qualified manager required for busy branch in good-class district within easy reach of London; must be business builder. House will be provided for keen applicant seeking permanency. Apply Box 2/630.

HERTS. Good-class market town. Vacancy occurs for qualified manager for busy branch. Excellent opportunity for progressive pharmacist, able to build up dispensing connection. Permanency. Possibility of house for suitable applicant. Apply Box 2/629.

L. ROWLAND & CO., LTD., of Wrexham, wish to increase their qualified staff, and invite applications for two vacancies. One, the management of a small branch could be filled quite adequately by an elderly gentleman not requiring too arduous duties, but the other offers an opportunity for a young gentleman to take an important and progressive position within the firm. Unfurnished accommodation may be offered with one vacancy. Full particulars please to "Mitre Buildings," Wrexham.

LEICESTER. Qualified assistant offered permanent, shortly, dispensing and counter. Residential suit. Easy hours, no Sunday or holiday duties. Usual particulars, 57 Turnbull Drive, Braun, Leicester.

LONDON CO-OPERATIVE CHEMISTS, LTD., several attractive and congenial vacancies branch manager pharmacists in various London suburbs. Apply Superintendent Chemist, 54 Portland St., Stratford, E.15.

ORRIDGE & COMPANY Employment Agency, Strand, W.C.2. Temple Bar 9212/3. Branch Southampton and Birmingham. Enquiries from pharmacists and unqualified persons required. Many attractive vacancies available. Excellent opportunities existing in progressive managements. Locums provided for. No charge employees except registration fee. Apply to Strand, W.C.2, in first instance.

PHARMACIST required as dispenser and assistant manager. Good wages and hours. No Sunday half-day duties. Apply Box 2/679.

PHARMACISTS and unqualified assistants required for vacancies in South-East and South-West London Permanent progressive positions. Superannuation scheme in operation. Apply in writing, stating experience and salary required to the Staff Manager, Royal Arsenal Co-operative Chemists, 113 Powis Street, Woolwich, S.E.18.

QUALIFIED ASSISTANT required for good-class business. Private and N.H.I. dispensing. Court Apply with full particulars, to J. A. Symonds, 1 Photographic Chemists, 16 Upper Brook Ipswich.

QUALIFIED MANAGER, Manchester, two in from City centre, dispensing, display, etc. Salary £10 weekly. House part available if required. Apply with usual particulars. Box 2/590.

QUALIFIED CHEMIST, either sex, required as assistant in central pharmacy; permanent progressive position; superannuation scheme in operation. Apply stating age, experience, and salary required to: The Supt. Chemist, Co-operative Chemists Ltd., Kidderminster, Worcestershire.

ED CHEMIST required to re-open and man-
age closed during war. Busy shopping area
offering excellent opportunities for increasing sales.
Accommodation, living accommodation available.
Secretary & Executive Officer, Norwich Co-
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ED LADY or gentleman to manage branch.
Day, half-day or bank holiday duties. Good
pay and bonus. Living accommodation will be
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details to L. S. Royds, M.P.S., 57 Liverpool
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ED MANAGER required for branch shop.
Good commission will be paid to right man-
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Ricks, Ltd., 298 Cavendish Rd., S.W.12.

ED MANAGER for branch in S.E. London;
agency for unqualified assistant. Middle-class
salary hours. Please give full particulars of
experience, and salary required. Apply Box

EA. Qualified chemist required, lady or
gentleman. Apply W. A. Bell, (Chemists), Ltd.,
100 R. Southsea, Hants.

LEY & DIST. IND. CO-OPERATIVE SOCIETY,
100 Elliott Street, Tydesley. Qualified che-
mical technician required as superintendent for new
branch to be opened in the near future. This
is a permanent position with excellent opportunities
and advantages. Written applications to be for-
warded to the office of the above Society, giving
full experience, together with copies of two
testimonials, not later than Saturday,
June 21, 1948.

LY REQUIRED, qualified lady or gentleman
for permanent situation. Salary £12 to com-
mission. Franks (Birmingham), Ltd., 394 Lodge Rd.,
Birmingham, 18.

LY WANTED. Qualified manager, for
dispensing business, able to window-
display. Advantage. Locum would be considered.
giving full particulars of experience and
qualifications. To W. L. Million, Ltd., 168 Fleet
Street, London, E.C.4.

LIFIED assistant required immediately. Must
have knowledge of dispensing counter work and win-
dow display. Apply 11 Fenchurch St., London,
E.C.3. (R. Howden, Ltd.).

AN. Man or woman bookkeeper, used to
work. Apply by letter, with full particulars,
to Messrs. Curtis & Co., Ltd., 79 Baker St., W.1.
We have several lucrative and interesting branch
shops available for pharmacists in the Lon-
don suburbs. Small company; sound prospects. Box

HARTLEPOOL. Pharmacist capable of taking
over a branch required. Suit newly qualified
pharmacist. Exceptional opportunity for experience in
a modern class store pharmacy. J.I.C. scale of
fees. Particulars to Hartlepool Co-operative
Society, Ltd., West Hartlepool.

LONDON. Capable pharmacist required to
manage good-class branch in West London. Suit-
able experience necessary, and ability to handle cus-
tomers and build up a dispensing connection very
important. Good salary and prospect of living ac-
commodation if necessary. Apply Box 2/628.

PRIVATE COMPANY requires pharmacist for
branch to be opened shortly in beautiful rural
area. It is suggested that employment begins im-
mediately at headquarters shop to enable full under-
standing of policy before taking new position. Pre-
ferential references re working conditions available.
Box 576.

RETAIL (OVERSEAS)

ESTABLISHED Tasmanian pharmacy in pros-
tation has vacancy for a qualified pharmacist.
Experience as assistant with excellent prospects for
promotion. Suit young chemist wishing to emi-
grate. Apply in first instance with copies of refer-
ences. Box 2/669.

LOCUMS WANTED

QUALIFIED locum available immediately. Short
periods undertaken in London area. Write Box
2/648.

WHOLESALE

ACTIVE and experienced representative required on
commission basis (part time) to call on chemists,
hairdressers, ironmongers, etc., in Nottingham, Lin-
coln, Norfolk, Suffolk, Cambridge, Huntingdon,
Northampton, Bedford, for "Eclipse," razor blades.
Apply in writing, with full particulars to James
Neill & Co. (Sheffield), Ltd., Composite Steel Works,
Napier St., Sheffield.

AGENTS required by old-established manufacturers
of toilet goods. Must have sound connections with
chemists, stores, and Co-op. societies. Territories:
Kent, Surrey and Sussex, Yorkshire, Northumber-
land, and Durham. Scotland. Northern Ireland.
Apply Box 2/686.

AN EMINENT ethical pharmaceutical house requires
first-class representatives, pharmaceutical qualifica-
tions preferred, but not essential. Only men with
initiative and enthusiasm need apply. Salary ac-
cording to experience, plus bonus. Areas vacant.
Liverpool, Leeds, Sheffield, Birmingham, Newcastle.
Please apply with full particulars to Sales Manager,
Abbott Laboratories, Ltd., Wadsworth Rd., Peri-
vale, Middlesex.

ANALYST. Assistant required for chief Analyst to
chemical and pharmaceutical factory on outskirts
of Stockport. Candidates should possess B.Sc. and
preferably Ph.C. qualifications with experience in
physical and chemical control of raw materials, in-
termediates and finished products. Applications will
be treated in confidence and should be addressed to
Managing Director, British Schering Manufac-
turing Laboratories, Ltd., 38 Fitzwarren St., Seed-
ley, Salford, 6, Lancs.

ASSISTANT stockkeeper (male) required. Know-
ledge of pharmaceutical trade an advantage. Write,
full particulars of age, experience and salary re-
quired, to Secretary, Bayer Products, Ltd., Africa
House, Kingsway.

BRITISH EUROPEAN PHARMACEUTICAL CO.,
LTD., a combine including Allen & Hanburys, Ltd.,
Antigen Laboratories, Ltd., Armour & Co., Ltd.,
Boots Pure Drug Co., Ltd., British Drug Houses,
Ltd., Evans Medical Supplies, Ltd., Vitamins,
Ltd., engaged in the co-operative marketing of
British medical products in Europe, require the ser-
vices of a general manager; a knowledge of French
essential. An attractive salary will be paid to a
suitable applicant. Applicants should give full de-
tails of career to Mr. S. B. Morgan, Chairman,
British European Pharmaceutical Co., Ltd., c/o
Antigen Laboratories, Ltd., 95 Great Portland St.,
London, W.1.

CIBA LABORATORIES, LTD., Horsham, Sussex, re-
quire medical representatives for various territories
throughout Great Britain and Northern Ireland.
Applicants should hold a pharmaceutical qualifica-
tion and should preferably be below 35 years of
age. Previous experience as a representative not
essential as training will be given. Write fully, giv-
ing details of experience, qualifications, age and
salary required, to the Sales Manager.

CIBA LABORATORIES, LTD., have a vacancy in
their pharmaceutical manufacturing department for
a male qualified assistant, preferably under 25 years
of age. The work involves the large-scale manufac-
ture of ampoules, ointments, tablets and other pre-
parations, and it is desirable that applicants should
have experience of, or be interested in, the appli-
cation of mechanical methods for this purpose. The
position is permanent and offers considerable scope
for advancement. A contributory pensions scheme
is in operation. Apply, with full particulars of edu-
cation and career to date, to Works Manager, Ciba
Laboratories, Ltd., Horsham.

CHEMIST required. Must have sound knowledge in toilet or perfumery lines. Also permanent waving reagents. Good salary and congenial working conditions. Apply by letter in first instance, to Box 98, c/o George Murray (Advertising), Ltd., 184 Strand, London, W.C.2.

CHEMICAL MANUFACTURERS require representatives (car owners) for Yorks and N. and S. Wales. Must have first-class connections with chemists, hairdressers, department stores, etc. Salary and commission. Box 2/645.

COST ACCOUNTANT required. Position might suit young man preparing for final C.W.A. or similar examination. Knowledge of pharmaceutical costing an advantage but not essential. Write, stating age, experience and salary required, to Secretary, Bayer Products, Ltd., Africa House, Kingsway.

DAMANCY & CO., LTD., Harrow, Middlesex, require a qualified representative to live in the Midlands (preferably Birmingham area) and take over and develop existing clientele in the Midlands and East Anglia as far north as the Lancashire-Yorkshire border. Preference given to car owner. Salary, expenses and commission. Applications, in writing, will be treated as confidential.

EXPERIENCED REPRESENTATIVE required for old-established house of distributors. Preferably resident in Nottingham district. Must have connection with chemists in Nottingham, Derby, and Leics. Age about 35-45. Car owner or driver. Box 2/639.

FULL AND PART-TIME representatives required by City wholesale house, to call on hairdressers, drug stores, and chemists, with comprehensive range of saloon requisites, packed lines, and proprietary goods. Good support given. Apply Box 2/653.

GENERAL MANAGER required with all-round knowledge in sales, publicity, production, etc. Possession of a pharmaceutical degree an advantage. Good salary and excellent prospects for the right applicant. Advertisers are well-known manufacturing chemists in London to whom full details of age, experience and qualifications should be sent in confidence. Box 2/569.

LONDON MANUFACTURERS of medical preparations require the services of a bacteriologist. Salary £1,250 per annum rising by annual increments of £50 to £1,500. A higher initial salary would be considered if experience and qualifications justify it. Box 2/668.

MANAGER required for subsidiary of well-known National Company providing equipment for approved surgical and hospital treatment. Experience in medical detailing and propaganda essential. Applicants should be qualified and of good appearance and address. Established entree into medical and hospital sphere is desirable. Commencing salary £650 per annum, advancement to be directly related to development achieved. Write, stating age, qualifications and experience, with names of three referees to Box 2/627.

MANUFACTURERS of fine quality pharmaceutical products in popular demand have vacancies for representatives or agents with outstanding abilities and qualities to take over and develop existing clientele. Territories: 1. London, north of the Thames, Middlesex, Herts, Essex. 2. Notts, Derby, Leicester, Northants, Lincoln, Cambridge, Suffolk, Norfolk, Oxford, Bucks, Beds, Huntingdon. 3. Hants, Dorset, Wilts, Somerset, Devon, Cornwall. Highest credentials necessary. Own car. Age 30-45. All applications treated in strict confidence, but only those conveying complete information will be considered and acknowledged. Box 2/666.

MANUFACTURERS of insecticides and allied lines selling well to chemists, furnisiers, stores, ironmongers, hardware and building merchants, etc., require representatives with own car and established connections. Areas: Midlands, North Wales, Lancs, Yorks, North England, Scotland and Northern Ireland. Write territory covered and lines carried, to Box 2/647.

MANUFACTURING CHEMISTS, N.W. London, vacancy in their pill factory for an assistant with previous experience, or willing to learn the resident in London area. 5-day week. Writing age, details of previous experience. Box 2/652.

MANUFACTURERS of C.F. preparations require representatives or agents for all areas to carry products on a 20 per cent. commission basis. Agents must have good connection and be prepared to give adequate representation. Application full particulars of present territory, commission represented and lines carried to Box 2/598.

MANUFACTURING CHEMISTS in London, vacancy for pharmacist with aptitude for figure calculations. The position carries a good salary is one of responsibility. Applications, which will be treated in strictest confidence, should full particulars of age, experience and present salary to Box 2/652.

OLD-ESTABLISHED chemists' sundriesmen agents for the following areas. 1. Midland South Coast, to take over existing connections to be experienced. Car an advantage but not representation proves satisfactory a car will be provided. Commission basis. Full support guaranteed. Apply to Mr. Livesey, James Hardcastle & Co., High Holborn, W.C.1. Hol. 0377.

OLD-ESTABLISHED manufacturing chemists would propose to appoint woman public officer. Duties include assembly of matter for advertisements, circulars, catalogues, etc., with purely technical products (such as material used in pharmacy and in the manufacture of confectionery, flavours, etc.), produced in collaboration with firm's advertising agents; together with all routine work, records, etc. Essential qualifications: good general education, flair for writing to extract information from busy people, and able publicity experience. Some knowledge of trade an advantage. Initial salary around £1,000. Reply with full details to Box 2/646.

OLD-ESTABLISHED firm of wholesale chemists sundriesmen require smart man to call on chemists, etc., with proprietary lines in short supply, and commission. References required. V. Foyle & Sons, Ltd., 14 Devonshire Row, London, E.C.2.

OPPORTUNITY. A well-known perfumery firm invites application from active and ambitious men between 20 and 25 years, having pharmaceutical experience for training as representatives. Give particulars, stating salary required, etc., to Box 2/646.

ORRIDGE & CO., require pricing staff with ledge of drug lists. Apply with details of experience, etc., to 184 Strand, London, W.C.2.

PHARMACIST required by W. J. Bush & Co., Ash Grove, Hackney, E.8, for their analytical laboratory and for control work. Salary commensurate with experience. Write, with full particulars to the Secretary.

REPRESENTATIVE required for London area. Must have good connection amongst hairdressers, chemists, etc. Good wages and commission. Apply to J. & P. Page, Ltd., 10 Newman St., London, V.

REPRESENTATIVES required throughout G.B. on chemists, hairdressers, etc., to introduce Jay Eyelash Curler. Commission basis. Write Glamour Products, Ltd., 23a East St., Brighton, Sussex.

REPRESENTATIVES with established connections, chemists, hairdressers, stores, Co-ops., etc., required in several areas England and Scotland for lines with strongest possible appeal. Good commission. Full particulars Box 2/683.

REPRESENTATIVES. Prominent manufacturer of ethical products has vacancies for representatives in the southern part of England. Appointment permanent and offer scope for advancement to didates who should be registered pharmacists, 10 years of age, with a sound training in the best of pharmacy. Some experience in a hospital dispensary would be an advantage. Reply, giving full details with a recent photograph, which will be returned, to Box 2/651.

ENTATIVE required by firm of manufacturers to call upon doctors, chemists and in connection with high-class ethical pharmaceutical products. Salary, commission and expenses. Area South Warwickshire, Oxford and Worcestershire district. Box 2/649.

ENTATIVE required by firm of manufacturers to call upon doctors, chemists and in connection with high-class ethical pharmaceutical products. Salary, commission and expenses. Area Yorkshire district. Box 2/684.

ENTATIVES required for London and Home Counties, Lancashire and Eastern Counties, to call upon chemists with well-established C.F. lines. Personal and progressive position. Give age, experience, to Box 2/571.

ENTATIVE required for progressive sundry Kent and Sussex area, S.E. London and Surrey. Must be keen, adaptable, car owner, able to build up established connection which is neglected. Resident in Kent area. Reaction by salary, commission and expenses. All particulars in confidence, to Sales Director, Box 2/557.

ENTATIVES required by importers of bottles for the cosmetic trade. Calling on: cosmetic manufacturers, pharmacists, chemists, and others. Car essential. Commission and car allowance. Territories: (1) Lancashire-Cheshire; (2) Yorkshire-Northumberland-Durham; (3) Norfolk-Hunts-Cambs-Lincs-Rutland; (4) Wales; London. Box 2/565.

ENTMEN. Progressive and established manufacturers of well-advertised cosmetic range have openings for salesmen to carry additional lines, respectively on stores, chemists, hairdressers, and so on. Good commission during initial period; progressive salaried position offered to successful getters. Write full particulars, to Box W, 20 Blackfriars Lane, E.C.4.

MANAGER required for well-known company manufacturing toilet and cosmetic products. Reply, give age, experience, salary required, to Box 2/570.

KEEPER required by a well-known London pharmaceutical house. Applicant must also be connected with packing, despatch, etc. Progressive position. Give full particulars of age, experience and salary, to Box 2/570.

KNOWN London chemical manufacturers require representative with pharmaceutical training in the Yorkshire area. Must be well introduced and experienced in visiting doctors, hospitals and chemists. Application to Box 2/675.

KNOWN manufacturing chemists with established connection require services of a representative, preferably qualified, to cover their Midlands territory. Full particulars of past experience, commission, if any, and salary required, to Box 2/661.

ING MAN (early 20's) required as assistant in the department of London ethical proprietary pharmaceuticals. Previous export and shipping experience useful but not essential. Write full details of age, experience and salary required, to Secretary, Bayer Chemicals, Ltd., Africa House, Kingsway.

WHOLESALE (OVERSEAS)

ISTS urgently required by large company operating in the Middle East. Will be employed on development or process work and should be prepared initially to undertake shift work on the plant; should possess B.Sc. degree and previously have had subsequent industrial experience. Not over 30. Single men preferred. Starting salary not less than £500/£600 p.a. according to qualifications, together with a generous allowance in currency, also free furnished bachelor accom-

modation; free passages out and home; free medical attention; kit allowance; provident fund benefits. Applicants must be of full British parentage and should write stating age, qualifications and experience to Dept. F.18, Box 1006, at 191 Gresham House, E.C.2.

EVANS MEDICAL SUPPLIES, LTD., have vacancies in their South African Company for foreign representatives; single men preferred. Applicants should state age, qualifications, experience, etc., to Overseas Trade Director, Speke, Liverpool, 19.

PLANT CHEMISTS urgently required for process plant operation by large company operating in the Middle East. Applicants need not be graduates but should have had a chemical training up to Inter B.Sc. or National Certificate standard with experience of shift work in either a gas, coke oven or chemical works. Age not over 30. Salary in sterling between £540 and £600 per annum plus generous allowances in local currency, with free furnished bachelor accommodation, passages out and home, medical attention, also kit allowance and provident fund benefits. Apply stating age, qualifications and experience, etc., to Dept. F.22, Box 1020, at 191 Gresham House, E.C.2.

SOUTH AFRICAN FIRM, thoroughly established, exclusive distributors of well-known British manufacturers, carrying stocks of chemist sundries, patent medicines, proprietary brands, toilet preparations, fine rubberware, surgical plasters, surgical instruments, veterinary medicines, insecticides, fancy stationery, pencils, etc., wish to engage capable sales manager with initiative to be in charge of our new Cape offices after preliminary training. Must be live wire salesman and organiser. Starting salary £600 per annum, liberal commission, car allowance, general expenses, with unlimited prospects. Preference will be given to person in position to invest £25,000, on which 6% interest will be paid. Exchange of trade and bank references invited. Priority passage will be arranged. Write confidentially to Dominion and Continental Agencies, P.O. Box 77, Durban.

TABLET MAKER REQUIRED FOR SOUTH AFRICA

Must be expert in all tableting processes including EFFERVESCENT TABLETS.

Apply in writing with full details of experience, salary required, etc., to:

Box 983,

SMITHS', 100 Fleet Street, London, E.C.4

SITUATIONS WANTED

3/- for 18 words or less, 1d. for every additional word

RETAIL (HOME)

LADY dispenser, bookkeeper, desires post, permanent or locum, doctors or hospital. Ellis, 52 Church Rd., Buckley, Chester.

WHOLESALE

A PROCESS WORKER, long experience with fine chemicals, extracts, amino acids, tableting, available now. Used to plant assembling and handling of mixed staff. Apply A. Chaplin, 8 Springbank Ave., Hornchurch, Romford, Essex.

FIRST-CLASS, qualified representative or sales manager, 20 years' experience. Midlands preferred. Remuneration £800/£1,000 per year. Box 2/414.

AN APPEAL is made on behalf of an R.A.F. pilot who joined up from school in the early days of the war. Many flights over Germany and Occupied Territories; shot down over Germany in 1944. Rejoined R.A.F. on release and appointed Adjutant and Welfare Officer at recruits' camp of over 2,000. Just being discharged. Aged 27. Excellent presence, pleasing manner, good health. No commercial experience, but has sound judgment, is thoroughly reliable, quick on the up-take and a hard worker. Now seeks opportunity to establish himself in civil life in a position which offers reasonable prospects of advancement and permanency. Prepared to accept bare living salary for six months during training. Inquiries please to Box 2/671.

ENERGETIC MANAGER with proved ability to get full co-operation of workers, desires post where this capacity can be applied to advantage. Wide experience in warehouse side of drug and chemical industry. First-class references. Anywhere outside London considered. Box 2/495.

EXPERIENCED TRAVELLER, covering South London and the Home Counties, many years representing manufacturing firm of surgical dressings, seeks muslin squares and toilet paper as additional lines. First-class references. Box 2/633.

MANAGERESS of chemist's, seeks change. Thorough knowledge of cosmetic, perfumery, sundries, etc.; wishes to represent established firm in West of England on South Coast. Able to drive. Box 2/655.

MANUFACTURERS, LOOK! Scotsman, ambitious, hard worker, age 38, married, car owner, resident West of Scotland. Considerable experience "On the Road," possessing first-class references of representation, would like to hear only from high-class concerns looking for traveller above the average in sales ability and building up goodwill. Address, 1010, Wm. Porteous & Co., Glasgow.

PHARMACEUTICAL CHEMIST (B.Sc. Hons.) with wide experiences in pharmacy, seeks position as technical director with manufacturing and wholesale chemists. View to development in ethical pharmaceutical field. Prepared to invest £2,000-£3,000 if necessary. Propositions invited. Box 2/566.

REPRESENTATIVE with good connection in Southern England desires position with established firm. Box 2/575.

UNQUALIFIED, wishing change, desires position as representative, any pharmaceutical lines, South-East area. References. Box 2/662.

WORKS and production manager; experience in filling machines and maintenance; used to handling mixed staff; can also manufacture toilet and pharmaceutical packed lines, with packing and dispatch knowledge. Good organizer. Age 34. Box 2/660.

APPOINTMENTS

LONDON COUNTY COUNCIL

ASSISTANT PHARMACIST required for duty at Cane Hill hospital, Coulsdon, Surrey. Candidates must be Registered Pharmacists. Salary £370, rising to £450 a year. Commencing salary according to experience. For application form returnable by 12th February, 1948, send stamped addressed foolscap envelope to Medical Officer of Health (MHS/I), County Hall, Westminster Bridge, S.E.1. (90).

MIDDLESEX COUNTY COUNCIL

ASSISTANT PHARMACIST required at Hillingdon County Hospital, nr. Uxbridge, Middlesex. J.N.C. (Hospital Staffs) scale £370-£450 p.a. inclusive. Similar experience may determine commencing salary. Established, pensionable, subject to medical exam. Recently qualified pharmacists considered. Application, stating age, qualifications, experience, enclosing copies of up to three recent testimonials to Medical Director of Hospital immediately (quoting D.444 C.D.) No forms. (Male candidates to state position with regard to Military Service.)

MIDDLESEX COUNTY COUNCIL
ASSISTANT PHARMACIST for HAREFIELD COUNTY HOSPITAL, Harefield, Middlesex (Registered essential). J.N.C. (Hosp. St) salary £370 inclusive; annual increments up to £450 p.a. considered. Similar experience determine commencing salary. Recently qualified pharmacists eligible. Whole-time unestablished, possible establishment; subject to medical examination. Application stage, quals., exper., with copies of up to 3 recent testimonials to **MEDICAL DIRECTOR at Hospital, IMMEDIATELY.** No forms (quote C.D.).
C. W. RADCLIFFE,
Clerk of the County Council

Middlesex Guildhall S.W.1.

METROPOLITAN HOSPITAL, KINGSLAND ROAD, E.8

ASSISTANT PHARMACIST (2) required. Salaries in accordance with J.N.C. Scale, lunch and tea. Federated Superannuation Scheme in force. Hours 9 till 5. No Sun duty. Hospital experience preferred but essential.

Applications giving age, experience, and references to the House Governor.

QUEEN MARY'S HOSPITAL FOR THE EAST END, STRATFORD, E.15

ASSISTANT PHARMACIST

Applications are invited from registered pharmacists for this appointment. Salary scale £370 per annum with annual increases of 4 up to £450 per annum. Commencing salary within scale according to qualifications and experience. Federated Superannuation Scheme in force.

Applications, giving full particulars of qualifications and experience and copies of recent testimonials should be sent as soon as possible to the undersigned.

M. J. HUNTLEY,
House Governor and Secretary

THE GENERAL INFIRMARY AT LEEDS

Applications are invited for the appointment of **ASSISTANT PHARMACIST.** Salary in accordance with the J.N.C. scale commencing at £350 p.a., plus meals, which will be provided when on duty. Federated superannuation scheme in force. Night and week-end duty will be worked in rotation. Previous hospital experience not essential. Applicants must reply own handwriting, stating sex, age and experience, and also enclose copies of not more than three recent testimonials to the House Governor and Secretary, not later than 4th February 1948.

WEST KENT GENERAL HOSPITAL, MAIDSTONE

135 BEDS

Applications are invited for the post of pharmacist now vacant. Salary according to scale laid down by the Joint Negotiating Committee. Applications, stating age, qualification and experience, together with copies of three recent testimonials, should be sent to the undersigned.

EDWARD J. GREGG,
House Governor and Secretary

AGENCIES

17/6 for 36 words or less, 4d. for every additional word

AGENT with chemist's connections required to carry an additional line of small cosmetic bottles. Write full particulars first application, to Box 2/677.

MANUFACTURERS of nation-wide advertising articles who are prepared to advertise in English please contact Chemist, B.Sc., as sole agent distributor. Car, office, phone, security. 7903, Eason's Advertising Service, Dublin.

required by old-established manufacturers goods. Must have sound connections with stores, and Co-op. societies. Territories: Surrey, and Sussex. Yorkshire, Northumberland and Durham. Scotland. Northern Ireland. Box 2/686.

AFRICA. A director of a well-known supply shortly visiting South Africa, willing to negotiate on behalf of English manufacturer. Advertiser's extensive experience of organising sales or manufacture. Box 2/673.

ESTABLISHED company of manufacturing capable to give prompt deliveries have vacant agents with connections amongst grocers, ironmongers and general stores, for the counties of Essex, Hertford, Bedford, Bucks, Oxford, Berkshire, Hampshire, Surrey and Sussex. Backed by extensive advertising. Generous commission terms paid monthly. Car owners preferred. Box 2/664.

AGENCIES WANTED

36 words or less, 3d. for every additional word

FACTURERS' AGENTS, representing well-known brand, with excellent connections to all dealers, multiple stores and chemists, wish to appoint manufacturers with reputable products who can give effective and conscientious service. Box 2/677.

BUSINESS OPPORTUNITIES

36 words or less, 4d. for every additional word

ANY MARKETING patent toilet article of wide appeal, now selling through chain stores and leading independent chemists in various parts of the country, invite further substantial offers to expand or would consider sale to company established in this field. Box 2/573.

DISTRIBUTING AGENTS, desirous of marketing under their own name, wish to contact firms who are in position to manufacture and pack. Specialities. Box 2/612.

FACTURING CONCERN with a well-established factory in South-east London has skilled staff available and is prepared to undertake additional work. Especially well-equipped for liquids and powders. Box 2/476.

FACTURING CHEMISTS have facilities and available for the manufacture and bottling of cosmetic, industrial or toilet products. Frank Chemical Ltd., 30 Loughborough St., S.E.11.

GRAPHIC CHEMISTS. In spite of shortages of glass, retain in the goodwill of your photographic clientele by selling "Good Photography," a magazine for photo enthusiasts. Its attractive presentation and informative contents ensure a ready sale. Published quarterly at 2s. For trade terms apply to Publisher, "Good Photography," 123/5 Victoria St., London, E.C.4.

FIELD MANUFACTURERS with space capacity for your enquiries for surgical blades, also various blanks (narrow widths, .005"/.012") in finished or unfinished state. Box No. 1826, S. C. Peat Ltd., 21 Leigh Rd. Liverpool.

PARTNERSHIPS

T HIGHLANDS. The director-proprietor of an established, small ethical limited company appoint energetic co-director production manager for a sister toiletry company (Ltd.) closed down in 1945 and now re-opening with several registered mark specialities and quota. One able person with high-class specialities, knowledge of and export marketing. Investment essential. Salary available. Box 2/680.

MAN with strong connection leading provinces, chemists, etc., and having wide family links in contacts in British West Indies, British Columbia and Canada, seeks partnership in established manufacturing business. Small capital available if necessary. Box 2/665.

BUSINESSES FOR DISPOSAL

8/6 for 36 words or less, 3d. for every additional word

DRUG AND GENERAL STORES

FOR SALE BY PRIVATE TREATY TOGETHER WITH GOOD MODERN SHOP and dwelling house. Situate in a thickly populated part, LOUGHBOROUGH, LEICS.

Excellent opportunity for an M.P.S. Further particulars, apply W. PENNINGTON & CO., Auctioneers & Valuers, Market St., Loughborough (Tel. 3669).

CHESHIRE suburban business recently converted into drug store. Excellent fixtures and fittings. Heavy stock. Turnover £6,500. Price to include goodwill, stock and fixtures. Box 2/681.

SMALL WHOLESALE proprietary concern for sale as going concern, £12,000. Box 2/638.

MISCELLANEOUS SALES

17/6 for 36 words or less, 4d. for every additional word

AMPOULES of quinine dihydrochloride 0.5 gm. quinine dihydrochloride 0.25 gm., and quinine hydrochloride 0.5 gm. with urethane 0.25 gm., all in boxes of 100, available immediately at reasonable prices. Cupal, Ltd., Blackburn.

AMYL SALICYLATE. Small quantity of surplus stock available in 5-lb. Winchester, in cartons. Price, 17s. 6d. per bottle, carriage paid, cash with order, from Standard Chemical & Pharmaceutical Co., Ltd., 30 Baker St., London, W.1.

APPROXIMATELY 6 tons ground nut fatty acid in 2-3 cwt. steel casks. First reasonable offer accepted. Write Box 2/642.

BOTTLES. 20 gross 1-oz. cylinder bottles, beautiful quality, 24s. gross. 30 gross super 2-dram perfume bottles, 26s. gross, complete with plastic caps, and carriage paid, sample free. 5 gross Simplex American safety razor, 12s. doz., neatly cartoned. American super Marlin blades, 12s. box of 100 blades, inc. tax. Lever, 44 St. Alban's St., Leeds, 2.

FOR SALE. Surplus to requirements; 3½ tons shampoo cream — good hair cleanser and conditioner. Box 2/659.

FOR SALE. Surplus to requirements. 1 ton block stearine, M.P. 120/125; price 3/6 per lb. Box 2/658.

FOR SALE. 100 gross 4-oz. green cylindrical screw neck bottles. Immediate delivery. Box 2/626.

FOR SALE in original unbroken 40-50 gallon drums. Spot lot genuine American steam distilled pine oil. Three drums only. Offers for part or lot invited. Box 2/636.

GLASS JARS. We have to clear 50 gross 1-oz. clear glass jars. Any offer accepted. Box 2/676.

HEALTH SALTS supplied in bulk. Enquiries invited to Box 2/640.

HOUSEHOLD DYES, known registered trade mark. Stocks of packing and raw materials. Simple formula; no machinery required. Offered for sale at attractive price. Box 2/641.

MANUFACTURERS have for disposal 20 gross brand new cork mouth winchester bottles. Price to clear, 128/- per gross, ex works. Box 2/637.

MANUFACTURERS have from time to time surplus stocks for disposal of 1 oz., 2 oz. and 4 oz. medicals. Write Box 2/487 for full details.

MEDICAL FLATS, thoroughly cleaned, as new with new caps in 6 and 8-oz. sizes, also 6, 9 and 12-oz. oval ribbed, to clear. Lennard, Lee-Narvill & Co., Ltd., 216 Anlaby Rd., Hull.

ONE CASE containing 12 x 5-lb. tins Chinese menthol crystals. Best offer. Prom Confectionery Co., Ltd., 30a Elizabeth St., Blackpool.

REBUILDING SALE of bottles and jars. Immediate delivery. Approximate quantities as follows: 60 gr. 1 dram perfumes, 30/-; 20 gr. 2 dram perfumes, 33/-; 100 gr. watch shape smelling salt bottles, 25/-; 100 gr. 4 dram squat square perfumes, complete with fancy boxes, 175/-; 100 gr. 4 dram tall square bottles, 30/-; 25 gr. 6 dram flat perfumes, 36/-; 100 gr. 7 dram suzi bottles, 30/-; All above



Eade's PILLS

Eade's Rheumatic and Gout Pills, the remedy with a 100 year old fame.

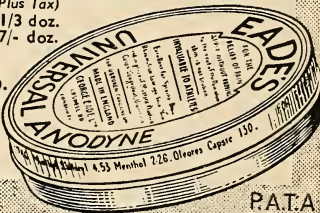
RETAIL (Inc. Pur. Tax)	WHOLESALE (Plus Tax)
1/7	11/3 doz.
3/9	27/- doz.
6/3	46/- doz.

Eade's UNIVERSAL ANODYNE

Another Eade's product always in demand.

RETAIL (Inc. Pur. Tax)	WHOLESALE (Plus Tax)
1/7	11/3 doz.
3/9	27/- doz.

EADE'S PILLS LTD.
(Dept. C. & D),
232 Goswell Rd.,
LONDON, E.C.1.
Clerkenwell 3370



with bakelite caps. 150 gr. 3 dram cannons, cork mouth, 10/-, 50 gr. 1 1/2 oz. squat clear glass jars, metal caps, 36/-, 75 gr. 1 oz. squat black jars, duplex caps, 40/-, 30 gr. 6 oz. tall jars, yellow metal caps, 30/-, 300 gr. 4 oz. squat clear glass jars, metal caps, 20/-, All per gross. Open to offer. Box 2/644.

SURPLUS STOCK. We invite offers for the under-mentioned: Henna, Egyptian powdered, 6 x 100 lb. bags. 1 oz. octagonal pomade jars with white metal screw caps. 20 gross. 1 oz. vials. 40 gross. Samples on request. Pride Products, 10 Park Square East, Leeds, 1.

SURPLUS. to clear. Best white mineral oil. Odourless, colourless. Available. Box 2/635.
5 DRUMS 97/99% brown cold filtered oleic acid. 5 drums fine white redistilled tallow oleic acid. 10 cases B.P. spermaceti wax. 5 cwt. triple-pressed stearic acid (130). Offers to Box 2/678.

500 GROSS new brass lacquered caps, 24 m.m. Sample sent. Halstead, Woodward & Co., Ltd., Hinckley, Leics.

WANTED

8/6 for 36 words or less, 3d. for every additional word

A BIG PRICE offered for home cines, cameras, or projectors. Bell-Howell, Kodak, G.B., etc. Also Leica, Contax and other precision cameras, enlargers, exposure meters, etc. Prompt cash. Wallace Heaton, Ltd., 126-7 New Bond St., London, W.1.

AMERICAN PEPPERMINT OIL, B.P. required; or Brazilian. Any quantities. Box 2/644.
AUTOMATIC cream filler wanted at once; big price paid. Shavex Co., Bavaria Rd., Holloway, N.15.

BOTTLES. 26-oz. and 13-oz. wine or champagne bottles required. Box 1/853.

BOTTLE-WASHING MACHINE, full or semi-matic, new or reconditioned, wanted for w medical bottles, 1-oz. to 40-oz. B. James Latimer Rd., London, W.10. Park 6072.

GLYCERINE urgently required. Any quantities of B.P. or commercial. State quantity available price required under Box 2/514.

GLYCERINE wanted, any quantities taken of quality. Cash by return. State quantity available and price required to Box 157/296.

LARGE FIRM of manufacturers are requiring or small quantities of toilet rolls, banded or banded. Good price paid. Please quote inclusive purchase tax. Box 2/654.

PACKER requires regular monthly supplies of peppermint tablets. Particulars to Box 2/299.

PACKER requires regular monthly supplies of liquorice and menthol pellets. Particulars to 2/298.

SACCHARIN TABLETS wanted (standard) Large or small quantities, bulk or packed. S amounts can be purchased regularly for cash. Box 515, c/o J. G. King & Son, 150 Fleet London, E.C.4.

SESQUI CARBONATE, crex and stearic acid and double pressed. Write Box 2/552.

STEARIC ACID, triple pressed required in quantities. Box 147/850.

WANTED. Phenacetin, glycerine, required manufacturing chemists. Offers to Box 2/30.

WANTED. Rotary tablet making machine. details to Box 2/555.

WANTED, SACCHARIN TABLETS. Standard Large or small quantities bought. Whole Prompt cash with order. Bulk or packets. H. ple, 41 Mill Hill Rd., Irby, Wirral, Cheshire.

WANTED. Triple pressed stearic acid in large small quantities. Glycerin B.P. available in payment. Box 2/650.

WANTED. Protheonal. Will any chemist be surplus stocks kindly return to Bayer Products, Africa House, Kingsway, W.C.2, when credit reconditioning charge, will be given for paid in saleable condition.

WHITE PETROLEUM JELLY, B.P., required. minimum one drum lots. Box 2/643.

2-10 TONS caustic soda flakes and solid and sulphide. Write Box 2/555.

FOR SALE

8/6 for 36 words or less, 3d. for every additional

FOR SALE, Eureka type tablet machine, comp overhauled, complete with stand and v-pulley motor drive. Less motor. Capacity 18" to £37 10s. Box 2/625.

FOR SALE. 40 gross No. 3 tablet bottles, com with caps in original cartons. Box 2/672.

GOOD SUPPLIES of Sicilian liquorice sticks, 2 in boxes about 24 lbs. Packed in cases of ap 1 cwt., at 4/- per lb. Also Chinese camphor sq 1-oz. and 4-oz., at 12/- per lb. Box 2/685.

TO CLEAR. Vials, 1 dram. Metal screw caps prox. 50 gross, 10/- a gross. British Product Eastern Espl., Southend-on-Sea.

41 1/2 GROSS of fancy 2-oz. battles (wing of with black bakelite caps (originally for export sale. Packed equally in four cases, 50/- per Regency Products, 81 Fawcett Rd., Southsea, Portsmouth, Hants.

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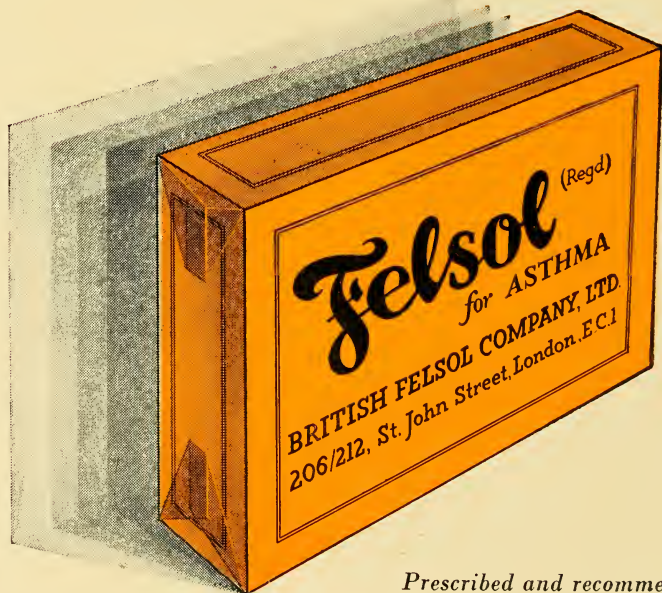
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